Appendix G

Sustained Yield Test Technical Memorandum

Contract No.: EP-W-09-002 WA #: 023-RARA-02PE

Region 2 RAC2 Remedial Action Contract

Sustained Yield Test Technical Memorandum

Old Roosevelt Field Contaminated Groundwater Area Superfund Site Remedial Action Garden City, Long Island, NY

November 9, 2011





14 Wall Street, Suite 1702 New York, NY 10005 tel: 212 785-9123 fax: 212 227-1692

November 9, 2011

Ms. Caroline Kwan Remedial Project Manager U.S. Environmental Protection Agency 290 Broadway – 20th Floor New York, NY 10007-1866

PROJECT:

EPA Region 2 RAC2 Contract No.: EP-W-09-002

Work Assignment No.: 023-RARA-02PE

DOC CONTROL NO.:

3320-023-01112

SUBJECT:

Sustained Yield Test - Technical Memorandum

Old Roosevelt Field Contaminated Groundwater Area Superfund Site

Remedial Action

Garden City, Long Island, New York

Dear Ms. Kwan:

CDM Federal Programs Corporation (CDM) is pleased to submit the Sustained Yield Test Technical Memorandum for the Old Roosevelt Field Contaminated Groundwater Area Superfund Site in Garden City, Long Island, New York.

If you have any questions regarding this submittal, please contact me at 732-590-4638.

Very truly yours,

CDM FEDERAL PROGRAMS CORPORATION

Thomas Mathew Project Manager

PSO: 52

Enclosure

cc: H. Eng, EPA Region 2 (letter only)

J. Litwin, CDM (letter only)
RAC2 Document Control

A. Rahmani, CDM J. Dougherty, CDM

Table of Contents

Section		ned Yield Test Design, Equipment, and Sampling	
	2.1	Sustained Yield Test Design	
	2.2	Water Level Monitoring Locations and Equipment Deployment	
	2.3	Pumps, Flow Meters, and Water Treatment	2-2
	2.4	Groundwater Quality Sampling	2-2
Section	3 – Aquife	r Testing	3-1
	3.1	Step Drawdown Test Design	3-1
	3.2	Sustained Yield Test	3-1
	3.2.1	Garden City Production Well Monitoring	3-1
	3.2.2	Groundwater Sampling	3-2
	3.2.3	Manual Water Level Monitoring	3-2
	3.2.4	Precipitation and Barometric Pressure	3-2
Section	4 – Data A	nalysis and Results	4-1
	4.1	Hydrogeologic Conceptual Model	4-1
	4.2	Background Water Level Monitoring	4-1
	4.3	Step Test Analysis	4-2
	4.4	Sustained Yield Test Analysis	4-2
	4.5	Extraction Well Sustained Yield Test Analysis	4-3
	4.6	Distance Drawdown Analysis	4-4
	4.7	Well GWP-10 Test Analysis	4-4
	4.8	Extraction Well Pumping Influence on Monitoring Wells	4-4
	4.9	Use of the Sustained Yield Test Results in the Groundwater Flow M	lodel .4-5
	E 0 l	sions	- 4

Tables

- 2-1 Transducer Deployment Information
- 3-1 Step and Pump Test Flow Rate Information and Specific Capacity Data
- 3-2 Water Quality Parameters
- 3-3 Manual Water Level Observations
- 4-1 Well Information and Aguifer Test Analysis Input Parameters
- 4-2 Model Layer and Aquifer Test Well Screen Information
- 4-3 Aquifer Test Analysis Results
- 4-4 Distance Drawdown Data for Extraction Well and Well GWP-10 Pumping
- 4-5 Comparison of Aquifer Test Analysis Results and Model Layer K Values

Figures

- 2-1 Sustained Yield Test Monitoring and Pumping Well Location Map
- 2-2 Geologic and Groundwater Flow Model Cross Section
- 4-1 Well SVP-10 Water Level Data
- 4-2 Well EW-1I Step Test Water Level Data
- 4-3 Well SVP-10, Port 3 Data Analysis: Extraction Well Pumping
- 4-4 Distance Drawdown Graph: Extraction Well Pumping
- 4-5 Well SVP-10, Port 3 Data Analysis: Well GWP-10 Pumping

Appendices

- Appendix A

 Appendix B

 Appendix C

 Appendix C

 Appendix D

 Sustained Yield Test Water Level and Flow Rate Data

 Appendix E

 Appendix E

 Appendix F

 Appendix G

 Appendix G

 Appendix G

 SVP-10 Transducer Deployment Information

 Pump and Flow Meter Information

 Step Test Water Level and Flow Rate Data

 Weather Data

 Appendix F

 Appendix G

 Step Test Analyses
- Appendix H Extraction Well Pumping Well Data Analyses
- Appendix I GWP-10 Pumping Well Data Analyses
- Appendix J Simulation of Aquifer Test and Model Refinement Memorandum



Section 1 Introduction

CDM Federal Programs (CDM) is conducting a Remedial Action at the Old Roosevelt Field Contaminated Groundwater Area Superfund Site (the site) located in Garden City, New York, for the U.S. Environmental Protection Agency (EPA), Region 2, under Work Assignment (WA) 023-RARA-02PE of the Remedial Action Contract (RAC) 2, Contract No. EP-W-09-002. To support construction of the groundwater extraction and treatment system, CDM conducted a sustained yield test, as detailed in the Remedial Design, Section 02525, Well Installation, for the Old Roosevelt Field Contaminated Groundwater Area Superfund Site. The objectives of the sustained yield test were as follows:

- Test the capacity of extraction wells EW-1S, EW-1I, and EW-1D to meet their design flow requirements.
- Obtain site specific aguifer hydraulic parameter data to verify values used in the groundwater flow model of the site.
- Obtain baseline specific capacity data for each extraction well.

This memorandum summarizes the sustained yield test design, equipment, methods, sampling, data analysis, and results. The observed test results are compared to the original design assumptions and the aguifer parameters used in the numerical groundwater flow model. Work was conducted in accordance with Section 02525 except that the flow rates used in the step-drawdown and sustained yield tests were increased, as discussed in this memorandum, to help meet project objectives. Sampling work discussed in this memorandum was conducted in accordance with the Final Quality Assurance Project Plan (QAPP), Old Roosevelt Field Contaminated Groundwater Area Site Remedial Action, Garden City, NY dated May 24, 2010 (CDM 2010a).

Section 2 Sustained Yield Test Design, Equipment, and Sampling

2.1 Sustained Yield Test Design

The sustained yield test consisted of the following elements:

- Background water level monitoring at selected wells from August 4, 2010 through September 7, 2010.
- Groundwater quality sampling to provide data for final treatment system design.
- Step-drawdown tests conducted on extraction wells EW-1S, EW-1I, and EW-1D on August 30, September 1, and September 2, 2010.
- Sustained yield test (pumping test) conducted from September 7 to September 10, 2010 during which the three extraction wells were pumped simultaneously at flow rates above their design capacity.
- Recovery water level monitoring from September 10 through September 13, 2010.

2.2 Water Level Monitoring Locations and Equipment Deployment

Starting on August 4, 2010, In-Situ® transducers were installed in eight conventional monitoring wells (MW-1S, MW-1I, MW-2S, MW-2I, MW-3S, MW-3I, GWX-10019, and GWX-10020) and five Westbay wells (SVP-2, SVP-3, SVP-4, SVP-9, and SVP-11). The Westbay wells were converted to monitoring wells by opening one pumping port in each well. Table 2-1 lists the conventional wells, the port opened on the Westbay wells, the dates of transducer deployment and recovery, and the data collection rate. The week before step testing began, In-Situ® transducers were also deployed in the three extraction wells (EW-1S, EW-1I, and EW-1D). Westbay wells SVP-5 and SVP-10 were each instrumented with five Westbay transducers to provide a vertical profile of water level data close to the extraction wells. The data from the Westbay transducers were stored on a Westbay Mosdax recorder installed in a weather proof metal box at each well. Earth Data, Inc., under subcontract to CDM, and their lower tier subcontractor Schlumberger, provided technical support and equipment to deploy the transducers in wells SVP-5 and SVP-10 and to open the pumping ports on the other Westbay wells used as monitoring wells. Well SVP-5 and SVP-10 transducer deployment information is included in Appendix A. The locations of all wells used for water level monitoring are shown on Figure 2-1. The cross section shown in Figure 2-2 trends north-south through the site and illustrates the groundwater flow model layers, site stratigraphy, and hydrogeologic conceptual model. The location of monitoring well GWX-10019, multiport wells SVP-4, SVP-9 and SVP-10, the extraction wells EW-1S and EW-1D, and Garden City municipal supply well GWP-10 are shown on the cross section with respect to the model layers. The location of the cross section shown on Figure 2-2 is shown on Figure 2-1.



2.3 Pumps, Flow Meters, and Water Treatment

Pumps used in the three extraction wells were Myers Ranger, 4-inch submersible pumps. The pumps were provided and installed by Uni-Tech, Inc. under subcontract to CDM. Uni-Tech also provided a trailer-mounted diesel generator to supply power to the pumps as well as flow meters with a digital readout of total and instantaneous flow. The pump specifications and flow meter calibration information are included in Appendix B. Water generated during the sustained yield test was piped to a temporary onsite treatment system operated by INTEX under subcontract to Uni-Tech. The system had a capacity of 250 gallons per minute (gpm). Water was pumped from the wells into a 20,000 gallon holding tank, treated using granulated activated carbon, and then piped to the storm drain on Clinton Road, west of the extraction wells. The storm drain runs into Nassau County Recharge Basin 124, located south of the Garden City wells and outside the area of influence of the extraction wells. Figure 2-1 shows the location of Clinton Road and the recharge basin.

2.4 Groundwater Quality Sampling

To provide data for treatment system design, four sets of groundwater samples were collected during the sustained yield test: 1) at the completion of well development; 2) at the end of the step test on each well, 3) at the start of the pumping phase of the sustained yield test, and 4) at the end of the sustained yield test. Samples were shipped on the day of sampling via FedEx to the EPA Division of Environmental Science and Assessment (DESA) laboratory in Edison, New Jersey. CDM used the sampling results to determine that an iron removal system was not needed as part of the final treatment system. This recommendation regarding treatment system. design and a summary of the sample results were conveyed in a letter to the EPA Remedial Project Manger (CDM 2010b).

The first set of samples was collected from each well after development of wells EW-1S, EW-1I and EW-1D was completed. Samples were collected from a sample port on the development pump discharge line from each well. Samples were analyzed for EPA Target Compound List (TCL) volatile organic compounds (VOCs), total iron (Fe) and manganese (Mn), and field filtered Fe and Mn. Three environmental samples were collected in accordance with the QAPP.

The second sample was collected after the step test was completed at wells EW-1S, EW-1I and EW-1D. Samples were collected from a sample port on the pump discharge line. Samples were analyzed for TCL VOCs, total Fe and Mn, and filtered Fe and Mn. Three environmental samples were collected in accordance with the QAPP.

The third and fourth sets of samples were collected during and at the end of the 72-hour drawdown phase of the sustained yield test. Samples were collected from four points: a sample port installed on each of the three wells before the flow meter and a fourth sample port on the common header that combined the discharge from all three wells. The first sample set (A) was collected between 4.5 and 6.5 hours after the yield test started; the second sample set (B) was collected at the conclusion of the sustained yield test. Samples were analyzed for TCL VOCs, total EPA Target Analyte List (TAL) metals (including mercury and cyanide), filtered TAL metals, total suspended solids (TSS), total dissolved solids (TDS), hardness, alkalinity, nitrate/nitrite, and oil and grease. Eight environmental samples were collected in accordance with the QAPP.



Section 3 Aquifer Testing

3.1 Step Drawdown Testing

The design flow rate of wells EW-1S and EW-1I is 60 gpm, while the design flow rate of well EW-1D is 80 gpm. The original step test design called for flow rates ranging from 0.5 to 1.33 times the design flow rate at wells EW-1S and EW-1I, and 0.5 to 1.75 times the design flow rate at well EW-1D. However, high flow rates with relatively little drawdown were observed at all three extraction wells during well development. Therefore, the step test plan was revised and the wells were pumped at the higher rates listed on Table 3-1 during the step test. Each step was two hours long. Higher flow rates were used to maximize the drawdown produced during the step test and thereby produce the most useful results.

Step tests were conducted at wells EW-1S, EW-1I and EW-1S on August 30, September 1, and September 2, 2010, respectively. At the conclusion of the step test at each well, a water sample was collected and sent to DESA laboratory for analysis as detailed in Section 2.3. Manual observations of flow rates and water levels in the extraction wells were made during the step tests and are included in Appendix C.

The flow rate and drawdown data from the step test were reviewed by CDM and the flow rates for the sustained yield test were set at 70 gpm for wells EW-1S and EW-1I and at 110 gpm for well EW-1D. This was done to maximize the stress applied to the aquifer.

3.2 Sustained Yield Test

Before the sustained yield test began, the water level recording rate was changed from 10 minute to 1 minute intervals on the transducers in most of the observation wells as listed on Table 2-1, to better capture water level changes in the wells. The sustained yield test started at 10:30 am on Tuesday, September 7, 2010, when all three extraction wells were switched on at the same time. Flow rates had been preset before the start of the test at 70 gpm for wells EW-1S and EW-1I and at 110 gpm for well EW-1D. Flow rates and water levels in the extraction wells were monitored manually at 15 minute intervals throughout the test. At least three people were onsite 24 hours per day during the sustained yield test to monitor the flow rate and water levels in the extraction and monitoring wells. Flow rates were adjusted as needed to keep them constant during the test. The manual flow rate and water level observations are included in Appendix D. The pumping phase of the test stopped after 72 hours at 10:30 am on Friday September 10, 2010.

3.2.1 Garden City Production Well Monitoring

During the sustained yield test, water levels and flow rates were monitored manually at two nearby Garden City municipal wells, GWP-10 and GWP-11. Water level indicators were installed in each well. During the first two hours of pumping, water levels were monitored at 1 minute intervals for the first



ten minutes and then at 10 minute intervals. After the first two hours, the water level and flow rates were checked every two hours until the end of the pumping phase. During the first two hours of recovery, water levels were monitored at 1 minute intervals for the first ten minutes and then at 10 minute intervals. After the first two hours of recovery, the water level and flow rates were checked every two hours until the late afternoon on Friday September 10, 2010. The flow meter on well GWP-10 was not working, so the on or off status of the well was recorded when the water level was measured. CDM consulted with Garden City Water Department and they reported the flow rate for well GWP-10 was 1,000 gpm. The flow meter on well GWP-11 was working and the well was on throughout the test, and pumped at a rate of about 1,200 gpm. Observations from well GWP-10 and GWP-11 are included in Appendix D.

3.2.2 Groundwater Sampling

As discussed above, groundwater samples were collected during and at the end of the 72-hour sustained yield test, in accordance with the QAPP. Samples were collected from four points: a sample port installed on each of the three wells, before the flow meter, and from a sample port on the common header which combined the discharge from all three wells. The first sample set (A) was collected between 4.5 and 6.5 hours after the yield test started; the second sample set (B) was collected at the conclusion of the yield test. The water quality parameters measured during sample collection are listed in Table 3-2.

3.2.3 Manual Water Level Monitoring

Manual water level monitoring was conducted periodically, before and during the sustained yield test, to check transducer function. All transducers functioned normally throughout the test. The manual observations are included in Table 3-3.

3.2.4 Precipitation and Barometric Pressure

Precipitation and barometric pressure data, for the period including background monitoring through the completion of the sustained yield test recovery, was obtained from the weather station KNYCARLE1, located near the site in Carle Place, New York. A total of 2.7 inches of rain was recorded during the background monitoring period on August 22, 2010, and 0.06 inches of rain was recorded on September 8, 2010, the second day of the sustained yield testing. Hydrographs indicate that precipitation did not impact water levels at site significantly during the pumping or recovery phases of the sustained yield test. These data are included in Appendix E.



Section 4 **Data Analysis and Results**

4.1 Hydrogeologic Conceptual Model

The hydrogeologic conceptual model for the site is illustrated in Figure 2-2 and shows the Upper Glacial aquifer, the Upper, Middle, and Basal Magothy aquifer, and the Raritan Clay. This conceptual model has been implemented in the groundwater flow model by dividing the system into 14 layers. After review of the drawdown data plots and the lithologic and gamma log data, CDM identified a local aquitard that, where present, separates the overlying Upper Glacial Aquifer from the underlying Magothy Formation. Lithologic data showed the aquitard thickness was typically 10 to 20 feet but ranged in thickness from 10 to 33 feet. This aguitard is located in Layer 12 of the groundwater flow model, which represents the Upper Magothy aquifer, and is assigned a horizontal hydraulic conductivity (K) of 60 feet/day and anisotropy ratio (vertical hydraulic conductivity, K₂/horizontal hydraulic conductivity, K) of 0.01 in the model. This K value is representative of the bulk K of the unit, which is about 100 feet thick, and not the K of local, relatively thin units like the aguitard. The aquitard was not included in the groundwater flow model due to its uncertain lateral and vertical extent and lack of information on its hydrogeologic properties.

The aquifer thickness used in the data analysis and to calculate K was defined as the distance from the bottom of the aquitard to the top of the Raritan Clay. The average thickness across the wells used in the sustained yield test was 452 feet. Details on well construction, elevation, and aguifer thickness for all pumping and observation wells are listed in Table 4-1. The groundwater flow model layers screened by each well used as a pumping or observation well during the aguifer test are listed on Table 4-2.

The three EW extraction wells, Garden City municipal wells GWP-10 and GWP-11, and most of the observation wells are completed in the Middle Magothy aguifer. The shallowest port, Port 10, in wells SVP-5 and SVP-10 is completed in the Upper Glacial aquifer. The deepest port, Port 1, in well SVP-10 is completed in the Basal Magothy aguifer.

Based on the existing groundwater flow model of the site, previous experience in the area, stratigraphy, and storativity values calculated from displacement data collected during this test, CDM selected a leaky-confined model for analysis of most of the sustained yield test data. Data from some shallow monitoring wells were analyzed assuming unconfined conditions because this model provided the best fit to the data. An anisotropy ratio of 0.01 was used in all analysis.

4.2 Background Water Level Monitoring

The background water level monitoring data were reviewed and showed that the pumping at Garden City municipal well GWP-10 significantly influences water levels in all the observation wells used during the sustained yield test. This is illustrated in the graph of water level data from the five zones (ports) monitored in well SVP-10 shown in Figure 4-1. The on/off cyclic pumping at well GWP-10

causes a variation of approximately 2 feet in the water levels observed at well SVP-10 in Ports 1, 3, and 5, which are in the same depth range as well GWP-10. The shallow zone, Port 8, is less influenced but still shows the regular pattern of drawdown caused by well GWP-10 turning on and off. The shallowest zone, Port 10, shows no significant influence from pumping in well GWP-10, probably because this zone is in the Upper Glacial Aquifer (see Figure 2-2). During the sustained yield test, well GWP-11 was observed to run all the time. Therefore, it was assumed in the analysis that well GWP-11 pumped at a constant rate before, during, and after the test and therefore did not cause any significant drawdown. Hydrographs of all the data from each well, including the background monitoring period and the sustained yield test period are included in Appendix F.

4.3 Step Test Analysis

The step test data were analyzed using the Hantush-Jacob method for step test analysis (Hantush and Jacob 1955) as implemented in Agtesolve (Hydrosolve 2011). Figure 4-2 shows a graph of the drawdown data from well EW-1I during the step test. Transmissivity values ranging from 27,160 feet²/day to 57,850 feet²/day were calculated based on the step tests. Using an aquifer thickness of 452 feet, K values ranging from 60 to 128 feet/day were calculated. Storativity values ranged from 5.58x10⁻¹ to 2.46x10⁻¹. These results are consistent with a leaky confined aquifer conceptual model. Plots of these analyses are included in Appendix G and the results are listed in Table 4-3. The displacement data observed during each step were used to calculate baseline specific capacity values, which are listed in Table 3-1.

4.4 Sustained Yield Test Analysis

Since production well GWP-11 was running before, during, and after the test at a constant flow rate, the well was left out of the analysis because it had no real effect on water levels in the observation wells. In the case of well GWP-10, it was pumping at 10:30 am on Tuesday September 7, when extraction well pumping started, and the well cycled on and off before, during, and after the test. To accommodate pumping at well GWP-10 into the analysis, CDM moved the start time of the sustained yield test back to 3:00 am on Tuesday September 7, 2010 which was when well GWP-10 started pumping immediately prior to the start of extraction well testing. This is practical but arbitrary because well GWP-10 cycled on and off for a long period well before the extraction well pumping started. The on/off cycling of well GWP-10 was incorporated into Aqtesolv which uses superposition to calculate the effect of multiple pumping wells on drawdown in observation wells. The start and stop times for the pump at well GWP-10 were estimated from water level data graphs from nearby observation wells and water level monitoring at well GWP-10.

The pumping period of the sustained yield test is clearly visible in the graph of data from SVP-10 shown in Figure 4-1. When the sustained yield pumping started, the water level in Ports 3 and 5 dropped by about 2 feet because these zones are close to and in the same elevation range as the screened zones in the nearby extraction wells. The water level in Port 1, the deepest zone, was less affected, while the water levels in the shallow zones, Ports 8 and 10 were not impacted.

The water level displacement observations from the extraction wells and observation wells during the sustained yield test were analyzed using Agtesolv Professional software (HydroSOLVE 2011). Table 4-1 lists the well information and aquifer test analysis input parameters used in Agtesolv. Based on site conditions, a leaky confined aquifer model was assumed and the Hantush-Jacob (1955)/Hantush (1964) solution for a pumping test in a leaky aguifer was applied to estimate aquifer parameters. In Agtesolv, this solution also incorporates wells with partial penetration (Hantush 1961a, 1961b). Assumptions of this method are as follows:

- Aquifer has infinite areal extent
- Aquifer is homogeneous and of uniform thickness



- Pumping well is fully or partially penetrating
- Flow to pumping well is horizontal when pumping well is fully penetrating
- Aquifer is leaky confined
- Flow is unsteady
- Water is released instantaneously from storage with decline of hydraulic head
- Diameter of pumping well is very small so that storage in the well can be neglected
- Confining bed(s) has infinite areal extent, uniform vertical K and uniform thickness
- Confining bed(s) is overlain or underlain by an infinite constant-head plane source
- Flow is vertical in the aquitard(s)

These assumptions are generally met by the site conditions because the study area is small relative to the large portion of Long Island underlain by the Magothy Formation; in the study area the aquifer thickness average is 452 feet, as shown in Table 4-1, with little variation; all pumping and observation wells were partially penetrating; and the aquifer can be considered leaky confined.

4.5 Extraction Well Sustained Yield Test Analysis

Plots of the analyses conducted using Aqtesolv on data collected during the extraction well sustained yield test are included in Appendix H. An example of the plot of the analysis of data from well SVP-10, Port 3 is show in Figure 4-3. Elapsed time starts when well GWP-10 turned on at 3:00 am on Tuesday September 7, 2010. The three extraction wells were turned on at 10:30 am that morning, at an elapsed time of 450 minutes, where a jump in drawdown is observed in Figure 4-3. These analyses included pumping from the three extraction wells and well GWP-10. The flow rate at well GWP-10 was assumed to be 1,000 gpm based on discussions with the water department. The on/off times for well GWP-10 were estimated by CDM from water level data collected in wells EW-1D and GWX-10019. Well EW-1D is relatively close to well GWP-10 and is completed in the same elevation range. Well GWX-10019 is the closest observation well to well GWP-10. The influence of well GWP-10 made the analyses more complex because the water level changes caused by well GWP-10 tend to mask changes caused by pumping at the extraction wells. In general, the water level graphs indicate that the change caused by the extraction well pumping occurred quickly and that, if well GWP-10 were not pumping, a new steady state probably would have been achieved within 8 to 24 hours of the start of pumping.

The results of the analysis of the water level displacement observations during the extraction well sustained yield test are summarized in Table 4-3. Transmissivity values ranged from 18,130 feet²/day to 82,430 feet²/day, with a median value of 48,180 feet²/day. Storativity values ranged from 3x10⁻⁴ to 1.53x10⁻³ with a median value of 8.15x10⁻⁴. Using an aquifer thickness of 452 feet, K values were calculated and ranged from 40 to 182 feet/day, with a median value of 107 feet/day. These results are consistent with a leaky confined aquifer conceptual model.

In Table 4-3, the observation wells are sorted by the following depth intervals: shallow, intermediate, and deep. These intervals correspond to the respective extraction well screened intervals. Table 4-3 also includes the model layers screened by each well.

4.6 Distance Drawdown Analysis

To estimate the extent of the influence from the extraction wells, a distance drawdown plot was prepared using the maximum displacement caused by extraction well pumping at a time of 4,320 minutes after extraction well pumping started. The data used are listed in Table 4-4. The distance drawdown plot is shown in Figure 4-4. Separate plots were prepared for shallow, intermediate, and deep wells. In the case of the shallow wells, drawdown was less than that observed in the intermediate and deep wells because of the significant vertical distance between the screens in these wells and the extraction wells. In all three cases, the distance drawdown plot indicates the extent of influence of the three extraction wells is between 1,300 and 2,000 feet.

4.7 Well GWP-10 Test Analysis

To check the results of the analysis conducted on the extraction well test data, background monitoring period water level data from selected wells were analyzed using Aqtesolv Professional using only well GWP-10 as a pumping well. An example of the plot of the analysis of data from well SVP-10, Port 3 is show in Figure 4-5. This was done to take advantage of the influence of pumping at well GWP-10 observed in many of the observation wells. Water level data from wells GWX-10019 and EW-1D, the closest wells to well GWP-10, were reviewed to estimate when well GWP-10 was on and off. Well GWX-10019 is screened above well GWP-10 and well EW-1D is screened over a similar elevation interval as well GWP-10. A flow rate of 1,000 gpm was assigned to well GWP-10. Based on observations during the sustained yield test, well GWP-11 was assumed to run constantly at a rate of 1,200 gpm during the observation period and was, therefore, not included in the analysis. The same interval of data was selected from each observation well for analysis. This interval covered a period of about 1,000 minutes and included one cycle where pumping at well GWP-10 started and then terminated at 750 minutes. The Aqtesolv analyses are included in Appendix I and the results of these analyses are shown in Table 4-3.

The results of the analysis of the water level displacement observations during the pumping at well GWP-10 are summarized in Table 4-3. Transmissivity values ranged from 18,770 feet /day to 77,190 feet /day, with a median value of 34,470 feet²/day. Storativity values ranged from 3.93x10⁻⁴ to 2.36x10⁻³, with a median value of 1.16x10⁻³. Using an aquifer thickness of 452 feet, K values were calculated and ranged from 42 to 171 feet/day with a median value of 76 feet/day.

When compared to the results from the extraction well analysis, the range of transmissivity and conductivity values from the extraction well and well GWP-10 analyses are similar but the median values for the well GWP-10 analyses are lower. The median transmissivity values calculated from the extraction well and well GWP-10 analyses are, respectively, 48,015 feet²/day and 34,470 feet²/day. The median K values calculated from the extraction well and well GWP-10 analyses are, respectively, 107 feet/day and 76 feet/day. These results are consistent with a leaky confined aquifer conceptual model. The results from the well GWP-10 and sustained yield test analysis are in general agreement. However, if the flow rate of well GWP-10 is not equal to the reported value of 1,000 gpm this would be one reason why these results differ.

In Table 4-3, the observation wells are sorted by the following depth intervals: shallow, intermediate, and deep. These intervals correspond to the respective extraction well screened intervals.

4.8 Extraction Well Pumping Influence on Monitoring Wells

Monitoring well clusters MW-1S/I, MW-2S/I, and MW-3S/I were installed to monitor the capture zone which is expected to develop after the extraction wells begin operation. The locations of the wells, shown on Figure 2-1, were chosen based on simulations of the capture zone using the groundwater flow model before the sustained yield test was conducted.



Each well cluster consists of a shallow (S) well with a 10-foot screen targeted at the -150 foot elevation and an intermediate (I) well with a 10-foot screen targeted at the -225 foot elevation (Table 4-1). These elevations correspond, respectively, to the approximate midpoint of the shallow extraction well, EW-1S, and intermediate extraction well, EW-1I, screened zones. The MW-01 cluster was installed approximately 280 feet northeast of the extraction wells and is intended to provide water level data inside the extraction well capture zone. The MW-02 cluster is located approximately 720 feet east-northeast of the extraction wells and is intended to monitor the width of the extraction well capture zone. The MW-03 cluster, located approximately 1,870 feet east-southeast of the extraction wells, is intended to provide water level data outside the capture zone of the extraction wells and Garden City supply wells GWP-10 and GWP-11.

While the 72-hour sustained yield test is not long enough to allow the full capture zone to develop, the drawdown data were checked to see if the extraction wells are influencing water levels in the monitoring wells. The water level fluctuation caused by pumping at well GPW-10 and the additional drawdown caused by extraction well pumping during the sustained yield test are clearly visible on the graph of water level data from wells MW-1S and MW-1I, which are included in Appendix F. Drawdown in well MW-1S attributable to extraction well pumping was 0.42 feet, and was observed within the first 1.5 hours of the test. Drawdown in well MW-1I attributable to extraction well pumping was 0.50 feet, and was observed within the first 1.5 hours of the test.

The water level fluctuation caused by pumping at well GPW-10 and the additional drawdown caused by extraction well pumping during the sustained yield test are also visible on the graph of water level data from wells MW-2S and MW-2I, which are included in Appendix F. However, the drawdown caused by the extraction well is significantly smaller than the drawdown in the MW-1S/I cluster. This is to be expected since this well cluster is about 2.5 times as far from the extraction wells as the well MW-1S/I cluster. Drawdown in well MW-2S attributable to extraction well pumping was 0.15 feet, and was observed within the first 1.5 hours of the test. Drawdown in well MW-2I attributable to extraction well pumping was 0.22, feet and was also observed within the first 1.5 hours of the test.

The water level fluctuation caused by pumping at well GPW-10 is clearly visible on the graph of water level data from wells MW-3S and MW-3I which are included in Appendix F. The extraction well pumping did not appear to cause any drawdown in either well MW-3S or well MW-3I. These results indicate that this well cluster should provide useful data, as intended, outside of the extraction well capture zone.

As discussed below, the sustained yield test was simulated using the groundwater flow model developed during the Feasibility Study. The results of the modeling indicate that the drawdown values simulated at well clusters MW-01S/I and MW-02S/I are in good agreement with the observed values, particularly during the cycling of GWP-10. Attached in Appendix J is the modeling technical memorandum, *Simulation of Aquifer Test and Model Refinement (April 2011)*, which was prepared by CDM.

4.9 Use of the Sustained Yield Test Results in the Groundwater Flow Model

The groundwater flow model was developed and used during the Feasibility Study to simulate the capture zone of various configurations of groundwater pumping wells and flow rates. The sustained yield test was simulated using the model as an additional means (other than groundwater head) to verify the hydraulic properties originally used in the Feasibility Study. Simulated changes in groundwater head were compared to water levels observed in wells during the background monitoring, when only well GWP-10 was running, and during the sustained yield test and hydraulic properties within the model were adjusted accordingly.



The sustained yield test was initially simulated using the K values and other aguifer parameters that were used during the Feasibility Study simulations. Under this scenario, the model predicted more drawdown in wells than was observed during the sustained yield test. This indicated that the model K in some layers was too low and needed to be increased. Additional lithologic data and gamma logs that were collected during the installation of the extraction wells and following the FS were reviewed and a relatively sandy layer was identified in the middle Magothy aquifer. The lateral extent of this unit is not well defined due to a lack of data, but was estimated by correlating the lithologic log and gamma log data collected during installation of the extraction wells to other gamma logs within the study area.

The hydraulic conductivity of this sandy layer within the middle Magothy was increased from an original value of 40 feet/day to 80 feet/day. This unit is identified in Table 4-5 as the "coarse zone" in the middle Magothy aquifer. This higher K improved the match between observed and predicted drawdown. A sensitivity analysis was conducted using K values of up to 180 feet/day for this coarse zone. The K value of 180 feet/day generally provided the best fit to data from well SVP-10, close to the extraction wells, but did not significantly improve the fit to data from other wells. A value of 180 feet/day is considered very high for the Magothy based on regional data (Smolensky et al. 1989).

The K values calculated from well GWP-10 pumping and from the sustained yield test are listed in Table 4-3 along with the final K values used in the respective model layer screened by the well. Table 4-5 compares the calculated K values, the original model values, and the revised model K values. The K values calculated from well GWP-10 pumping and the sustained yield test support the use of higher K values in the groundwater flow model.

To evaluate the effect of a range of K values on the extraction well capture zone, the groundwater flow model was used to simulate three scenarios: 1) the original aquifer parameters, 2) a K value of 80 feet/day assigned to the middle Magothy coarse zone and 3) a K value of 180 feet/day assigned to the middle Magothy coarse zone. These simulations show that as hydraulic conductivity increases the capture zone narrows and lengthens. The groundwater modeling procedures and results are discussed in detail in the Simulation of Aquifer Test and Model Refinement technical memorandum prepared by CDM which is included as Appendix J.



Section 5 Conclusions

The sustained yield test on extraction wells EW-1S, EW-1I, and EW-1D was successful and achieved its objectives.

- Extraction wells EW-1S, EW-1I, and EW-1D have the capacity to meet their design flow requirements.
- The hydraulic conductivity values calculated based on the sustained yield test were higher than those used in the original design, therefore the capture zones created by the extraction wells may be narrower than the original design. The width of the capture zone can be increased by increasing the flow rate.
- The distance drawdown plot indicates the extent of influence of the three extraction wells pumping together is between 1,300 and 2,000 feet. The extent of influence will be greatest in the upgradient direction.
- Transmissivity values calculated from the extraction well sustained yield test ranged from 18,130 feet²/day to 82,430 feet²/day with a median value of 48,180 feet²/day. Storativity values ranged from 3x10⁻⁴ to 1.53x10⁻³ with a median value of 8.15x10⁻⁴. Hydraulic conductivity values ranged from 40 to 182 feet/day with a median value of 107 feet/day.
- Transmissivity values calculated from well GWP-10 pumping data ranged from 18,770 feet²/day to 77,190 feet²/day with a median value of 34,470 feet²/day. Storativity values ranged from 3.93x10⁻⁴ to 2.36x10⁻³ with a median value of 1.16x10⁻³. Hydraulic conductivity values ranged from 42 to 171 feet/day with a median value of 76 feet/day.
- The range of transmissivity and conductivity values calculated from the extraction well and well GWP-10 data are similar, but the median values for well GWP-10 are lower. The median transmissivity values calculated from the extraction well and well GWP-10 analyses are, respectively, 48,015 feet²/day and 34,470 feet²/day. The median hydraulic conductivity values calculated from the extraction well and well GWP-10 analyses are, respectively, 106 feet/day and 76 feet/day. Overall, these results are consistent with a leaky confined aquifer conceptual model.
- The baseline specific capacity data for extraction wells EW-1S, EW-1I, and EW-1D are, respectively, 17 gpm/foot of drawdown, 24 gpm/foot of drawdown, and 24 gpm/foot of drawdown. These values are derived from the sustained yield test. Higher specific capacities were calculated from the step test data. The maximum specific capacity values calculated from step test data for extraction well EW-1S, EW-1I, and EW-1D were, respectively, 24 gpm/ft of drawdown, 31 gpm/ft of drawdown, and 28 gpm/ft of drawdown. The high specific capacity and relatively small drawdown observed in the extraction wells during the sustained yield test indicate that, if necessary, the extraction wells can be pumped at a higher flow rate.

If municipal wells GWP-10 and GWP-11 continue to pump at the rates and schedules observed during the sustained yield test, then the effect of pumping at these wells should be a constant in the aquifer system and, therefore, they should not impact the extraction well operation.

Section 6 References

CDM 2010a. Final Quality Assurance Project Plan, Old Roosevelt Field Contaminated Groundwater Area Site Remedial Action, Garden City, New York. CDM, Inc. Edison, NJ. May 24, 2010.

CDM 2010b. Iron Removal System, Old Roosevelt Field Contaminated Groundwater Area Site Remedial Action, Garden City, New York. Letter to EPA Remedial Project Manager. Document Control Number 33220.023.00589. CDM, Inc. Edison, NJ. October 7, 2010.

HydroSOLVE, Inc. 2011. Agtesolv Software Professional version 4.50. Reston, VA.

Hantush, M.S. and C.E. Jacob, 1955. Non-steady radial flow in an infinite leaky aquifer, American Geophysical Union Transactions., vol. 36, pp. 95-100.

Hantush, M.S., 1961a. Drawdown Around a Partially Penetrating Well, Journal. of the Hydraulic Division, Proceedings of the American Society of Civil Engineering, vol. 87, no. HY4, pp. 83-98.

Hantush, M.S., 1961b. Aquifer Tests on Partially Penetrating Wells, Journal. of the Hydraulic Division, Proceedings of the American Society of Civil Engineering., vol. 87, no. HY5, pp. 171-194.

Hantush, M.S., 1964. Hydraulics of Wells, in: Advances in Hydroscience, V.T. Chow (editor), Academic Press, New York, pp. 281-442.

Smolensky, Douglas A., Buxton, Herbert T., and Shernoff, Peter K. 1989. Hydrologic Framework of Long Island, New York. Hydrologic Atlas 709. United States Geologic Survey, Reston, VA.

Tables



Table 2-1 Transducer Deployment Information Old Roosevelt Field Contaminated Groundwater Area Superfund Site Garden City, New York

Well	Transducer Type	Date Installed	Sampling Rate (minutes)	Date Removed
MW-1S	In-Situ	8/4/10	10 (background),1 (during pump test)	9/20/10
MW-1I	In-Situ	8/4/10	10 (background), 1 (during pump test)	9/20/10
MW-2S	In-Situ	8/4/10	10 (background), 1 (during pump test)	9/20/10
MW-2I	In-Situ	8/4/10	10 (background), 1 (during pump test)	9/20/10
MW-3S	In-Situ	8/4/10	10	9/20/10
MW-3I	In-Situ	8/4/10	10	9/20/10
GWX-10019 (N-10019)	In-Situ	8/4/10	10 (background), 1 (during pump test)	9/20/10
GWX-10020 (N-10020)	In-Situ	8/4/10	10 (background), 1 (during pump test)	9/20/10
SVP-5, Ports 10, 8, 5, 3, and 1	Westbay MOSDAX	8/23/10	10 (background), 1 (during pump test)	9/13/10
SVP-10, Port 10, 8, 5, 3, and 1	Westbay MOSDAX	8/23/10	10 (background), 1 (during pump test)	9/13/10
EW-1S	In-Situ	8/24/10	10 (background), 1 (during pump test)	9/13/10
EW-1I	In-Situ	8/24/10	10 (background), 1 (during pump test)	9/13/10
EW-1D	In-Situ	8/24/10	10 (background), 1 (during pump test)	9/13/10
SVP-2, Port 4	In-Situ	8/24/11	10 (background),1 (during pump test)	9/13/10
SVP-3, Port 3	In-Situ	8/24/11	10 (background), 1 (during pump test)	9/13/10
SVP-4, Port 6	In-Situ	8/24/11	10 (background), 1 (during pump test)	9/13/10
SVP-9, Port 5	In-Situ	8/24/11	10 (background), 1 (during pump test)	9/13/10
SVP-11, Port 2	In-Situ	8/23/11	10	9/10/11



Table 3-1
Step and Pump Test Flow Rate Information and Specific Capacity Data
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

Well	Step/Phase	Multiple of Design Flow Rate	Flow Rate (gpm)	Displacement (feet)	Specific Capacity (gpm/ft of drawdown)
EW-1S	1	0.7	40	2.14	19
EW-1S	2	1	60		See note
EW-1S	3	1.3	75	3.26	23
EW-1S	4	1.5	90	3.78	24
EW-1I	1	0.7	40	1.35	30
EW-1I	2	1	60	1.91	31
EW-1I	3	1.3	75	2.4	31
EW-1I	4	1.5	90	2.97	30
EW-1D	1	0.8	60	2.45	24
EW-1D	2	1.3	100	3.9	26
EW-1D	3	1.8	140	5.46	26
EW-1D	4	2.3	180	6.53	28
EW-1S	Pump Test	1.2	70	4.06	17
EW-1I	Pump Test	1.2	70	2.90	24
EW-1D	Pump Test	1.4	110	4.53	24

Note: Experienced recovery during this step, did not calculate specific capacity

Well	Design Flow Rate (gpm)
EW-1S	60
EW-1I	60
EW-1D	80

gpm - gallons per minute



Table 3-2 Water Quality Parameters Old Roosevelt Field Contaminated Groundwater Area Superfund Site Garden City, New York

Location	Date and Time	Temperature (degree C)	Specific Conductance (ms/cm)	Dissolved Oxygen (mg/l)	pH (SU)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
Combined Flow (from all 3 extraction wells)	9/7/10 3:00 PM	16.04	0.448	6.66	4.62	226.7	0.46
Combined Flow	9/7/10 3:05 PM	16.01	0.446	5.2	4.58	229.1	0.44
Combined Flow	9/7/10 3:10 PM	16.05	0.448	4.52	4.58	230.4	0.48
EW-1S	9/7/10 3:45 PM	17.55	0.628	6.25	4.53	228.9	0.33
EW-1S	9/7/10 3:50 PM	17.55	0.628	5.2	4.51	233.4	0.44
EW-1S	9/7/10 4:00 PM	17.52	0.626	4.68	4.49	240.5	0.48
EW-1S	9/7/10 4:10 PM	17.42	0.623	4.48	4.89	245.4	0.46
EW-1I	9/7/10 4:35 PM	16.02	0.359	5.13	4.75	216.4	0.55
EW-1I	9/7/10 4:40 PM	16.04	0.358	3.62	4.62	221.8	0.45
EW-1D	9/7/10 5:00 PM	14.65	0.334	4.36	4.21	218.2	0.41
EW-1D	9/7/10 5:05 PM	14.6	0.334	3.54	4.66	222.3	0.73
Combined Flow	9/10/10 8:10 AM	15.55	0.422	9.77	4.8	193.5	0.57
Combined Flow	9/10/10 8:15 AM	15.59	0.421	9.1	4.77	195.4	0.77
Combined Flow	9/10/10 8:20 AM	15.58	0.42	7.3	4.76	195.9	0.56
EW-1S	9/10/10 8:35 AM	16.89	0.55	9.5	4.7	196.9	0.72
EW-1S	9/10/10 8:40 AM	16.86	0.55	8.31	466	199.4	0.64
EW-1S	9/10/10 8:45 AM	16.84	0.548	7.65	4.65	201.8	0.59
EW-1S	9/10/10 8:50 AM	16.84	0.548	7.21	4.64	202.5	0.59
EW-1I	9/10/10 9:00 AM	15.68	0.345	4.87	4.78	138.4	0.6
EW-1I	9/10/10 9:05 AM	15.66	0.344	4.47	4.77	193.2	0.77
EW-1I	9/10/10 9:10 AM	15.69	0.344	4.2	4.72	192.7	0.61
EW-1D	9/10/10 9:15 AM	14.4	0.351	5.22	4.78	193.1	0.53
EW-1D	9/10/10 9:20 AM	14.41	0.35	4.51	4.77	194.5	0.81
EW-1D	9/10/10 9:25 AM	14.41	0.351	4.37	4.77	194.6	0.68
EW-1D	9/10/10 9:30 AM	14.42	0.35	4.28	4.78	194.7	0.61



Table 3-3 Manual Water Level Observations Old Roosevelt Field Contaminated Groundwater Area Superfund Site Garden City, New York

Well ID	Date	Ground Surface Elevation (ft msl) NGVD29	Temporary Stickup (feet above ground surface)	Stickup (feet)	Sanitary Seal Thickness (feet)	DTW (feet below TIC)	Pressure Head (psi)	Height of Water Column Above the Transducer (feet)	DTW (adjusted to ground surface)	Water Level Elevation (feet amsl)	Top of Screen (feet bgs)	Bottom of Screen (feet bgs)	Top of Screen (feet amsl)	Bottom of Screen (feet amsl)
EW-1D	8/30/10 11:23 AM	88.12	0.5	N/A	N/A	35.98	29.59	68.32	35.48	52.64	350	410	-262	-322
EW-1D	9/7/10 9:41 AM	88.12	0.5	n/a	n/a	36.30	29.44	68.00	35.80	52.32	350	410	-262	-322
EW-1I	8/30/10 11:33 AM	88.12	0.25	n/a	n/a	35.15	29.50	68.09	34.90	53.22	280	340	-192	-252
EW-1I	9/7/10 9:47 AM	88.12	0.25	n/a	n/a	35.55	29.36	67.81	35.30	52.82	280	340	-192	-252
EW-1S	8/30/10 11:48 AM	88.12	1.05	n/a	n/a	34.21	27.65	63.82	33.16	54.96	210	270	-122	-182
EW-1S	9/7/10 9:51 AM	88.12	1.05	n/a	n/a	34.67	27.46	63.42	33.62	54.50	210	270	-122	-182
GWX-10019	8/4/10 11:28 AM	86.64	n/a	-0.33	0.04	30.64	17.79	41.07	30.97	55.67	223	228	-136	-141
GWX-10019	8/30/10 11:15 AM	86.64	n/a	-0.33	0.04	30.61	17.68	40.83	30.94	55.70	223	228	-136	-141
GWX-10019	9/7/10 9:31 AM	86.64	n/a	-0.33	0.04	31.05	17.49	40.39	31.38	55.26	223	228	-136	-141
GWX-10019	9/20/10 11:09 AM	86.64	n/a	-0.33	0.04	31.22	15.18	35.04	31.55	55.09	223	228	-136	-141
GWX-10020	8/4/10 11:57 AM	82.78	n/a	0.19	0.04	26.77	19.37	44.74	26.58	56.20	186	191	-103	-108
GWX-10020	8/30/10 10:07 AM	82.78	n/a	0.19	0.04	26.88	19.34	44.66	26.69	56.09	186	191	-103	-108
GWX-10020	9/7/10 8:52 AM	82.78	n/a	0.19	0.04	27.43	19.10	44.12	27.24	55.54	186	191	-103	-108
GWX-10020	9/20/10 11:24 AM	82.78	n/a	0.19	0.04	27.62	16.16	37.32	27.43	55.35	186	191	-103	-108
MW-1I	8/4/10 1:21 PM	86.62	n/a	-0.36	0.04	32.05	16.36	37.76	32.41	54.21	305	315	-218	-228
MW-1I	8/30/10 10:48 AM	86.62	n/a	-0.36	0.04	32.31	16.31	37.65	32.67	53.95	305	315	-218	-228
MW-1I	9/7/10 8:32 AM	86.62	n/a	-0.36	0.04	32.62	16.18	37.36	32.98	53.64	305	315	-218	-228
MW-1I	9/20/10 10:56 AM	86.62	n/a	-0.36	0.04	32.77	16.12	37.23	33.13	53.49	305	315	-218	-228
MW-1S	8/4/10 1:05 PM	86.62	n/a	-0.31	0.04	30.89	16.83	38.86	31.20	55.42	235	245	-148	-158
MW-1S	8/30/10 10:41 AM	86.62	n/a	-0.31	0.04	31.17	16.78	38.74	31.48	55.14	235	245	-148	-158
MW-1S	9/7/10 8:30 AM	86.62	n/a	-0.31	0.04	31.51	16.64	38.42	31.82	54.80	235	245	-148	-158
MW-1S	9/20/10 10:48 AM	86.62	n/a	-0.31	0.04	31.68	16.57	38.25	31.99	54.63	235	245	-148	-158
MW-2I	8/4/10 12:21 PM	87.12	n/a	-0.38	0.04	31.91	16.23	37.47	32.29	54.83	306	316	-219	-229

Table 3-3 Manual Water Level Observations Old Roosevelt Field Contaminated Groundwater Area Superfund Site Garden City, New York

Well ID	Date	Ground Surface Elevation (ft msl) NGVD29	Temporary Stickup (feet above ground surface)	Stickup (feet)	Sanitary Seal Thickness (feet)	DTW (feet below TIC)	Pressure Head (psi)	Height of Water Column Above the Transducer (feet)	DTW (adjusted to ground surface)	Water Level Elevation (feet amsl)	Top of Screen (feet bgs)	Bottom of Screen (feet bgs)	Top of Screen (feet amsl)	Bottom of Screen (feet amsl)
MW-2I	8/30/10 9:06 AM	87.12	n/a	-0.38	0.04	32.11	16.20	37.41	32.49	54.63	306	316	-219	-229
MW-2I	9/7/10 8:00 AM	87.12	n/a	-0.38	0.04	32.46	16.04	37.04	32.84	54.28	306	316	-219	-229
MW-2I	9/20/10 10:32 AM	87.12	n/a	-0.38	0.04	32.62	15.98	36.9	33.00	54.12	306	316	-219	-229
MW-2S	8/4/10 12:15 PM	87.12	n/a	-0.33	0.04	30.86	16.36	37.78	31.19	55.93	236	246	-149	-159
MW-2S	8/30/10 9:08 AM	87.12	n/a	-0.33	0.04	31.09	16.35	37.74	31.42	55.70	236	246	-149	-159
MW-2S	9/7/10 7:57 AM	87.12	n/a	-0.33	0.04	31.51	16.17	37.34	31.84	55.28	236	246	-149	-159
MW-2S	9/20/10 10:20 AM	87.12	n/a	-0.33	0.04	31.71	16.07	37.12	32.04	55.08	236	246	-149	-159
MW-3I	8/4/10 10:31 AM	85.12	n/a	-0.33	0.04	25.26	17.62	40.70	25.59	59.53	304	314	-219	-229
MW-3I	8/30/10 9:29 AM	85.12	n/a	-0.33	0.04	25.55	17.53	40.49	25.88	59.24	304	314	-219	-229
MW-3I	9/7/10 7:21 AM	85.12	n/a	-0.33	0.04	25.77	17.45	40.29	26.10	59.02	304	314	-219	-229
MW-3I	9/20/10 10:00 AM	85.12	n/a	-0.33	0.04	26.02	17.34	40.04	26.35	58.77	304	314	-219	-229
MW-3S	8/4/10 10:20 AM	85.12	n/a	-0.29	0.04	24.81	15.53	35.87	25.10	60.02	234	244	-149	-159
MW-3S	8/30/10 9:31 AM	85.12	n/a	-0.29	0.04	25.13	15.43	35.64	25.42	59.70	234	244	-149	-159
MW-3S	9/7/10 7:23 AM	85.12	n/a	-0.29	0.04	25.39	15.53	35.39	25.68	59.44	234	244	-149	-159
MW-3S	9/20/10 9:44 AM	85.12	n/a	-0.29	0.04	25.65	15.22	35.16	25.94	59.18	234	244	-149	-159
SVP-2, Port 4	8/30/10 8:39 AM	90.51	0.9	-0.07	n/a	33.68	6.43	14.86	32.78	57.73	330	335	-239	-244
SVP-2, Port 4	9/7/10 9:04 AM	90.51	0.9	-0.07	n/a	34.12	6.24	14.39	33.22	57.29	330	335	-239	-244
SVP-3, Port 3	8/30/10 8:49 AM	88.29	n/a	-0.21	n/a	31.42	8.08	18.65	31.63	56.66	370	375	-282	-287
SVP-3, Port 3	9/7/10 8:21 AM	88.29	n/a	-0.21	n/a	31.35	7.90	18.24	31.56	56.73	370	375	-282	-287
SVP-4, Port 6	8/30/10 8:20 AM	89.97	0.6	-0.36	n/a	33.47	6.27	14.49	32.87	57.10	245	250	-155	-160
SVP-4, Port 6	9/7/10 9:23 AM	89.97	0.6	-0.36	n/a	33.94	6.07	14.02	33.34	56.63	245	250	-155	-160
SVP-5, Port 10	9/7/2010 10:00	86.67	n/a	n/a	n/a	n/a	n/a	n/a	27.35	59.32	45	50	42	37
SVP-5, Port 8	9/7/2010 10:00	86.67	n/a	n/a	n/a	n/a	n/a	n/a	28.56	58.11	150	155	-63	-68

Table 3-3 Manual Water Level Observations Old Roosevelt Field Contaminated Groundwater Area Superfund Site Garden City, New York

Well ID	Date	Ground Surface Elevation (ft msl) NGVD29	Temporary Stickup (feet above ground surface)	Stickup (feet)	Sanitary Seal Thickness (feet)	DTW (feet below TIC)	Pressure Head (psi)	Height of Water Column Above the Transducer (feet)	DTW (adjusted to ground surface)	Water Level Elevation (feet amsl)	Top of Screen (feet bgs)	Bottom of Screen (feet bgs)	Top of Screen (feet amsl)	Bottom of Screen (feet amsl)
SVP-5, Port 5	9/7/2010 10:00	86.67	n/a	n/a	n/a	n/a	n/a	n/a	31.57	55.1	290	295	-203	-208
SVP-5, Port 3	9/7/2010 10:00	86.67	n/a	n/a	n/a	n/a	n/a	n/a	32.53	54.14	355	360	-268	-273
SVP-5, Port 1	9/7/2010 10:00	86.67	n/a	n/a	n/a	n/a	n/a	n/a	32	54.67	430	435	-343	-348
SVP-9, Port 5	8/30/10 9:53 AM	91.39	n/a	-0.47	n/a	32.51	6.61	15.26	32.98	58.41	285	290	-194	-199
SVP-9, Port 5	9/7/10 9:14 AM	91.39	n/a	-0.47	n/a	32.91	6.44	14.88	33.38	58.01	285	290	-194	-199
SVP-10, Port 10	9/7/2010 10:00	88.95	n/a	n/a	n/a	n/a	n/a	n/a	30.73	58.22	45	50	44	39
SVP-10, Port 8	9/7/2010 10:00	88.95	n/a	n/a	n/a	n/a	n/a	n/a	31.31	57.64	145	150	-56	-61
SVP-10, Port 5	9/7/2010 10:00	88.95	n/a	n/a	n/a	n/a	n/a	n/a	35.33	53.62	285	290	-196	-201
SVP-10, Port 3	9/7/2010 10:00	88.95	n/a	n/a	n/a	n/a	n/a	n/a	35.63	53.32	350	355	-261	-266
SVP-10, Port 1	9/7/2010 10:00	88.95	n/a	n/a	n/a	n/a	n/a	n/a	35.35	53.6	480	485	-391	-396
SVP-11, Port 2	8/30/10 5:35 PM	81.44	n/a	-0.34	n/a	30.48	18.71	43.21	30.82	50.62	400	405	-319	-324

n/a – not applicable

NGVD29 – National Geodetic Vertical Datum of 1929

Stickup – distance from the top of casing up (-) or down (+) to ground surface

amsl – above mean sea level

bgs – below ground surface

DTW – depth to water

msl - mean sea level, psi - pounds per square inch, TIC - top of inside casing



Table 4-1 Well Information and Aquifer Test Analysis Input Parameters Old Roosevelt Field Contaminated Groundwater Area Superfund Site Garden City, New York

Well	Zone ¹	x	Y	Surface Elevation	Depth to Water	Depth To Water Source ²	Top of Magothy, Elevation	Depth to Top of Magothy	Top of Raritan Clay, Elevation	Depth To Top of Raritan Clay	Aquitard Thickness	Depth to Bottom of Aquitard	Elevation of Bottom of Aquitard	Aquitard Thickness Source ³	b (Thickness of Magothy)	d (Distance from Water Table or Top of Magothy to TOS)	d (Distance from unit top or water table to TOS)	L Screen Length,	Casing Length	Bottom of Screen	Total Well Depth	Elevation of Top of Screen	Elevation of Bottom of Screen	r(c) Inside Radius of Casing	r(w) Radius of Well
		NAD27 feet	NAD27 feet	NGVD29 feet	feet bgs		NGVD29 feet	feet bgs	NGVD29 feet	feet bgs	feet	feet bgs	NGVD29 feet		feet	feet	feet	feet	feet	feet bgs	feet bgs	feet	feet	feet	feet
EW-1S	S	2105932.027	186070.8029	88.12	30	Α	1.39	86.73	-476	564	20	122	-34	1	442	88	180	60	210	270	275	-121.88	-181.88	0.33	0.33
EW-1I	ı	2105927.568	186080.2383	88.12	30	Α	1.41	86.71	-476	564	20	122	-34	1	442	158	250	60	280	340	345	-191.88	-251.88	0.33	0.33
EW-1D	D	2105923.039	186089.3509	88.12	30	Α	1.47	86.65	-476	564	20	122	-34	1	442	228	320	60	350	410	415	-261.88	-321.88	0.33	0.33
GWP-10	D	2105573	185553	87.12	30	Α	7.41	79.71	-479	566	20	122	-35	3	444	255	347	40	377	417	417	-289.88	-329.88	0.75	0.50
GWP-11	D	2105815.125	185331.8592	85.12	30	Α	3.99	81.13	-479	564	20	122	-37	3	442	248	340	40	370	410	410	-284.88	-324.88	0.75	0.50
GWX-10019	S	2105876.582	185981.2593	86.64	30	Α	1.77	84.87	-477	564	20	122	-35	1	442	101	193	5	223	228	228	-136.36	-141.36	0.17	0.17
GWX-10020	S	2106480.132	185775.454	82.78	27	Α	0	82.78	-478	561	10	108	-25	2	453	78	159	5	186	191	191	-103	-108	0.17	0.17
MW-1S	S	2106106.468	186328.0804	86.62	27	В	6.54	80.08	-476	563	10	108	-21	2	455	127	208	10	235	245	250	-148.38	-158.38	0.17	0.17
MW-1I	I	2106083.149	186321.7465	86.62	27	В	6.48	80.14	-476	563	10	108	-21	2	455	197	278	10	305	315	320	-218.38	-228.38	0.17	0.17
MW-2S	S	2106577.529	186411.4699	87.12	27	В	0	87.12	-475	562	10	93	-6	4	469	143	209	10	236	246	251	-148.88	-158.88	0.17	0.17
MW-2I	I	2106564.064	186423.5908	87.12	27	В	0	87.12	-475	562	10	93	-6	4	469	213	279	10	306	316	321	-218.88	-228.88	0.17	0.17
MW-3S	S	2107725.893	185540.0914	85.12	27	В	4.41	80.71	-492	577	14	n/a	n/a	5	492	153	207	10	234	244	244	-148.88	-158.88	0.17	0.17
MW-3I	I	2107740.054	185546.4829	85.12	27	В	3.88	81.24	-492	577	14	n/a	n/a	5	492	223	277	10	304	314	314	-218.88	-228.88	0.17	0.17
SVP-2, Port 4	I	2106214.482	187385.7233	90.51	27	Α	20.71	69.8	-465	556	n/a	n/a	n/a	6	486	260	303	5	330	335	335	-239.49	-244.49	0.08	0.17
SVP-3, Port 3	D	2106542.341	186966.0056	88.29	27	Α	0.39	87.9	-474	562	10	93	-5	7	469	277	343	5	370	375	375	-281.71	-286.71	0.08	0.17
SVP-4, Port 6	S	2105820.762	186882.6896	89.97	27	Α	18.66	71.31	-473	563	27	121	-31	7	442	124	218	5	245	250	250	-155.03	-160.03	0.08	0.17
SVP-5, Port 10	U	2106243.192	186039.5723	86.67	27	В	0	86.67	-476	563	10	108	-21	2	455	18	18	5	45	50	50	41.67	36.67	0.08	0.17
SVP-5, Port 8	S	2106243.192	186039.5723	86.67	27	В	0	86.67	-476	563	10	108	-21	2	455	42	123	5	150	155	150	-63.33	-68.33	0.08	0.17
SVP-5, Port 5	I	2106243.192	186039.5723	86.67	27	В	0	86.67	-476	563	10	108	-21	2	455	182	263	5	290	295	290	-203.33	-208.33	0.08	0.17
SVP-5, Port 3	D	2106243.192	186039.5723	86.67	27	В	0	86.67	-476	563	10	108	-21	2	455	247	328	5	355	360	360	-268.33	-273.33	0.08	0.17
SVP-5, Port 1	D	2106243.192	186039.5723	86.67	27	В	0	86.67	-476	563	10	108	-21	2	455	322	403	5	430	435	435	-343.33	-348.33	0.08	0.17
SVP-9, Port 5	I	2105956.767	187687.257	91.39	27	Α	20.41	70.98	-460	551	10	119	-28	7	432	166	258	5	285	290	290	-193.61	-198.61	0.08	0.17
SVP-10, Port 10	U	2105899.137	186072.6754	88.95	30	Α	1.67	87.28	-476	565	20	122	-33	1	443	15	15	5	45	50	50	43.95	38.95	0.08	0.17
SVP-10, Port 8	S	2105899.137	186072.6754	88.95	30	Α	1.67	87.28	-476	565	20	122	-33	1	443	23	115	5	145	150	150	-56.05	-61.05	0.08	0.17
SVP-10, Port 5	I	2105899.137	186072.6754	88.95	30	Α	1.67	87.28	-476	565	20	122	-33	1	443	163	255	5	285	290	290	-196.05	-201.05	0.08	0.17
SVP-10, Port 3	D	2105899.137	186072.6754	88.95	30	Α	1.67	87.28	-476	565	20	122	-33	1	443	228	320	5	350	355	355	-261.05	-266.05	0.08	0.17
SVP-10, Port 1	D	2105899.137	186072.6754	88.95	30	Α	1.67	87.28	-476	565	20	122	-33	1	443	358	450	5	480	485	485	-391.05	-396.05	0.08	0.17
SVP-11, Port 2	D	2105597.034	184603.9355	81.44	30	Α	3.45	77.99	-485	566	33	177	-96	7	389	223	370	5	400	405	405	-318.56	-323.56	0.08	0.17
														Mean	452										

bgs - below ground surface

NAD27 – North American Datum of 1927; NGVD29 – National Geodetic Vertical Datum of 1929

n/a - not applicable



^{1.} U- upper, S = shallow, I = intermediate, D = deep
2. All water level data collected in September 2010. A = SVP-10, Port 10; B = SVP-5, Port 10
3. Aquitard Thickness Data Sources: 1: Aquitard thickness data from TB-1 boring log, 4:SVP-03 gamma log, 5: No data available, assumed value of 14 feet

^{6:} No aquitard observed in data, 7:Gamma log

Table 4-2 Model Layer and Aquifer Test Well Screen Information Old Roosevelt Field Contaminated Groundwater Area Superfund Site Garden City, New York

Well	Zone ¹	Surface Elevation NGVD29	Top of Screen	Bottom of Screen	Elevation of Top of Screen	Elevation of Bottom of Screen	Model Layer Screened By Well	Elevation of Top of Model Layer NGVD29	Model Layer Screened By Well	Elevation of Top of Model Layer NGVD29	Model Layer Screened By Well	Elevation of Top of Model Layer NGVD29	Elevation of Bottom of Deepest Model Layer Screened by Well	Model Layer Description
		feet	feet bgs	feet bgs	feet	feet		feet		feet		feet	feet	
EW-1S	S	88.12	210	270	-121.88	-181.88	11	-101	10	-145			-189	Middle Magothy
EW-1I	I	88.12	280	340	-191.88	-251.88	9	-189	8	-215	7	-241	-268	Middle Magothy
EW-1D	D	88.12	350	410	-261.88	-321.88	7	-241	6	-268	5	-294	-333	Middle Magothy
GWP-10	D	87.12	377	417	-289.88	-329.88	6	-269	5	-295			-335	Middle Magothy
GWP-11	D	85.12	370	410	-284.88	-324.88	6	-270	5	-296			-336	Middle Magothy
GWX-10019	S	86.64	223	228	-136.36	-141.36	11	-101					-145	Middle Magothy
GWX-10020	S	82.78	186	191	-103	-108	11	-101					-146	Middle Magothy
MW-1S	S	86.62	235	245	-148.38	-158.38	10	-144					-188	Middle Magothy
MW-1I	I	86.62	305	315	-218.38	-228.38	8	-214					-241	Middle Magothy
MW-2S	S	87.12	236	246	-148.88	-158.88	10	-145					-189	Middle Magothy
MW-2I	I	87.12	306	316	-218.88	-228.88	8	-215					-242	Middle Magothy
MW-3S	S	85.12	234	244	-148.88	-158.88	10	-147					-194	Middle Magothy
MW-3I	I	85.12	304	314	-218.88	-228.88	9	-194	8	-220			-247	Middle Magothy
SVP-2, Port 4	I	90.51	330	335	-239.49	-244.49	7	-237					-264	Middle Magothy
SVP-3, Port 3	D	88.29	370	375	-281.71	-286.71	6	-266					-292	Middle Magothy
SVP-4, Port 6	S	89.97	245	250	-155.03	-160.03	10	-142					-184	Middle Magothy
SVP-5, Port 10	U	86.67	45	50	41.67	36.67	14	86.67					13	Upper Glacial
SVP-5, Port 8	S	86.67	150	155	-63.33	-68.33	12	0					-101	Upper Magothy
SVP-5, Port 5	I	86.67	290	295	-203.33	-208.33	9	-190					-216	Middle Magothy
SVP-5, Port 3	D	86.67	355	360	-268.33	-273.33	6	-268					-295	Middle Magothy
SVP-5, Port 1	D	86.67	430	435	-343.33	-348.33	4	-334					-373	Middle Magothy
SVP-9, Port 5	I	91.39	285	290	-193.61	-198.61	9	-181					-208	Middle Magothy
SVP-10, Port 10	U	88.95	45	50	43.95	38.95	14	88.95					25	Upper Glacial
SVP-10, Port 8	S	88.95	145	150	-56.05	-61.05	12	1.7					-100	Upper Magothy
SVP-10, Port 5	I	88.95	285	290	-196.05	-201.05	9	-188					-215	Middle Magothy
SVP-10, Port 3	D	88.95	350	355	-261.05	-266.05	7	-241					-268	Middle Magothy
SVP-10, Port 1	D	88.95	480	485	-391.05	-396.05	3	-373					-476	Basal Magothy
SVP-11, Port 2	D	81.44	400	405	-318.56	-323.56	5	-297					-338	Middle Magothy

U – upper, S = shallow, I = intermediate, D = deep
 Shading indicates the well did not penetrate model layer.



Table 4-3 Aquifer Test Analysis Results Old Roosevelt Field Contaminated Groundwater Area Superfund Site Garden City, New York

Observation Well	Zone (1)	Model Layer (2)	Pumping Well	Transmissivity, T	Storativity, S	Hydraulic Conductivity, K (feet/day)	Model	Method	Pumping Well	T [ft²/day]	Storativity, S	K (ft/day)	Method	Aquifer Property Code	Model Horizontal K (Vertical K) Values (5)	Model Storativity, S (Specific Yield, S _v)
EW-1S	S	11, 10	EW-1S, step test	27,160	5.58E-04	60	Leaky Confined (LC)	Hantush- Jacob (HJ)						348	40 (0.7)	2E-06 (0.15)
EW-1I	1	9, 8, 7	EW-1I, step test	57,850	1.61E-02	128	LC	HJ						350	80 (2)	2E-06 (0.15)
EW-1D	D	7, 6, 5	EW-1D, step test	38,580	2.46E-01	85	LC	HJ						350	80 (2)	2E-06 (0.15)
GWP-10 & Multiple Wells	s (3) Distance Dr	awdown							GWP-10	38,860	6.59E-04	86	HJ	Not Applicable		
Multiple Wells*			EW-1S, I, D and GWP-10						GWP-10	32,610	1.30E-03	72	HJ	Not Applicable		
GWX-10019	S	11	EW-1S, I, D and GWP-10	48,660	6.81E-04	108	LC	HJ	GWP-10	29,680	9.77E-04	66	HJ	348	40 (0.7)	2E-06 (0.15)
GWX-10020	S	11	EW-1S, I, D and GWP-10	74,640	7.25E-04	165	LC	HJ	GWP-10	36,880	1.14E-03	82	HJ	348	40 (0.7)	2E-06 (0.15)
MW-1S	S	10	EW-1S, I, D and GWP-10	60,510	3.00E-04	134	LC	HJ	GWP-10	34,470	7.68E-04	76	HJ	348	40 (0.7)	2E-06 (0.15)
MW-2S	S	10	EW-1S, I, D and GWP-10	46,310	1.02E-03	102	Unconfined (U)	Neuman	GWP-10	18,770	1.63E-03	42	Neuman	348	40 (0.7)	2E-06 (0.15)
MW-3S	S	10	EW-1S, I, D and GWP-10	20,500	4.11E-04	45	U	Neuman	GWP-10	(4)				348	40 (0.7)	2E-06 (0.15)
SVP-4, Port 6	S	10	EW-1S, I, D and GWP-10	18,130	8.57E-04	40	U	Neuman	GWP-10	20,600	1.06E-03	46	Neuman	348	40 (0.7)	2E-06 (0.15)
SVP-10, Port 8	S	12	EW-1S, I, D and GWP-10	20,360	3.18E-04	45	U	Neuman	GWP-10	77,190	2.34E-03	171	HJ	349	60 (0.6)	2E-06 (0.15)
EW-1I	1	9, 8, 7	EW-1S, I, D and GWP-10						GWP-10	28,560	9.50E-04	63		350	80 (2)	2E-06 (0.15)
MW-1I	1	8	EW-1S, I, D and GWP-10	48,180	7.95E-04	107	LC	HJ	GWP-10	33,270	1.34E-03	74	HJ	350	80 (2)	2E-06 (0.15)
MW-2I	1	8	EW-1S, I, D and GWP-10	50,280	1.02E-03	111	LC	HJ	GWP-10	41,220	1.16E-03	91	HJ	350	80 (2)	2E-06 (0.15)
MW-3I	1	9, 8	EW-1S, I, D and GWP-10	47,850	9.83E-04	106	LC	HJ	GWP-10	(4)				348	40 (0.7)	2E-06 (0.15)
SVP-10, Port 5	1	9	EW-1S, I, D and GWP-10	42,170	3.00E-04	93	LC	HJ	GWP-10	27,560	3.93E-04	61	HJ	350	80 (2)	2E-06 (0.15)
SVP-2, Port 4	1	7	EW-1S, I, D and GWP-10	66,800	1.53E-03	148	LC	HJ	GWP-10	37,880	1.33E-03	84	HJ	350	80 (2)	2E-06 (0.15)
SVP-9, Port 5	1	9	EW-1S, I, D and GWP-10	82,430	1.42E-03	182	LC	HJ	GWP-10	38,140	9.57E-04	84	HJ	350	80 (2)	2E-06 (0.15)
EW-1D	D	7, 6, 5	EW-1S, I, D and GWP-10						GWP-10	37,360	2.36E-03	83	HJ	350	80 (2)	2E-06 (0.15)
SVP-3, Port 3	D	6	EW-1S, I, D and GWP-10	55,430	1.38E-03	123	LC	HJ	GWP-10	38,810	1.37E-03	86	HJ	350	80 (2)	2E-06 (0.15)
SVP-10, Port 3	D	7	EW-1S, I, D and GWP-10	49,260	1.32E-03	109	LC	HJ	GWP-10	37,020	2.16E-03	82	HJ	350	80 (2)	2E-06 (0.15)
SVP-10, Port 1	D	3	EW-1S, I, D and GWP-10	41,330	8.35E-04	91	LC	HJ	GWP-10	28,180	1.85E-03	62	HJ	332	80 (1.2)	2E-06 (0.15)
SVP-11, Port 2	D	5	EW-1S, I, D and GWP-10	36,000	4.34E-04	80	LC	HJ	GWP-10	22,800	8.82E-04	50	HJ	350	80 (2)	2E-06 (0.15)
SVP-5, Port 8		12	EW-1S, I, D and GWP-10	(4)						(4)				349	60 (0.6)	2E-06 (0.15)
SVP-5, Port 5		9	EW-1S, I, D and GWP-10	(4)						(4)				350	80 (2)	2E-06 (0.15)
SVP-5, Port 3		6	EW-1S, I, D and GWP-10	(4)						(4)				350	80 (2)	2E-06 (0.15)
SVP-5, Port 1		4	EW-1S, I, D and GWP-10	(4)						(4)				348	40 (0.7)	2E-06 (0.15)
	Minimum			18,130	3.00E-04	40				18,770	3.93E-04	42			40	
	Maximum			82,430	1.53E-03	182				77,190	2.36E-03	171			80	
	Median			48,180	8.15E-04	107				34,470	1.16E-03	76				

⁽⁴⁾ Data not available during observation period
(5) K values checked in model elements within 100 feet of well



⁽¹⁾ Shallow (S), Intermediate (I), Deep (D),
(2) Model layers in depth order from shallow to deep
(3) Multiple Wells: EW-1S, EW-1I, EW-1D, GWX-10019, GWX-10020, MW-1S, MW-1I, MW-2I, SVP-3-Port 3, SVP-4, Port 6, SVP-10-Port 1, SVP-10-Port 3, SVP-10-Port 5, SVP-11-Port 2

Table 4-4 Distance Drawdown Data for Extraction Well and Well GWP-10 Pumping Old Roosevelt Field Contaminated Groundwater Area Superfund Site Garden City, New York

0 7			
Shallow Zone		T =	Γ
		Radial Distance (ft)	
Time (1) (min)	Well	from EW cluster	Displacement (ft)
4320	GWX-10019	111	0.78
4320	MW-1S	306	0.53
4320	MW-2S	729	0.27
4320	SVP-4, Port 6	810	0.26
Intermediate Z	one		
		Radial Distance (ft)	
Time (min)	Well	from EW cluster	Displacement (ft)
4320	SVP-10, Port 5	91	1.37
4320	MW-1I	287	0.61
4320	SVP-5, Port 5	318	0.55
4320	MW-2I	723	0.34
4320	SVP-2, Port 4	1336	0.13
4320	SVP-9, Port 5	1600	0.08
Deep Zone			
-		Radial Distance (ft)	
Time (min)	Well	from EW cluster	Displacement (ft)
4320	SVP-10, Port 3	91	1.36
4320	SVP-5, Port 3	318	0.64
4320	SVP-3, Port 3	1080	0.19

(1) Time since start of extraction well pumping

Table 4-5 Comparison of Aquifer Test Analysis Results and Model Layer K Values Old Roosevelt Field Contaminated Groundwater Area Superfund Site Garden City, New York

Observation Well	Model Layer	Aquifer Unit	K (feet/day) Step Test and EW's and GWP-10 Pumping	K (feet/day) GWP-10 Pumping	Original Model Horizontal K (Vertical K)	Revised Model Horizontal K (Vertical K)
SVP-10, Port 8	12	Upper Magothy	45	171	35 (0.6)	60 (0.6)
EW-1S	11, 10	Middle Magothy	60		40 (0.7)	40 (0.7)
GWX-10019	11	Middle Magothy	108	66	40 (0.7)	40 (0.7)
GWX-10020	11	Middle Magothy	165	82	40 (0.7)	40 (0.7)
MW-1S	10	Middle Magothy	134	76	40 (0.7)	40 (0.7)
MW-2S	10	Middle Magothy	102	42	40 (0.7)	40 (0.7)
MW-3S	10	Middle Magothy	45		40 (0.7)	40 (0.7)
SVP-4, Port 6	10	Middle Magothy	40	46	40 (0.7)	40 (0.7)
EW-1I	9, 8, 7	Middle Magothy, Coarse Zone	128	63	n/a	80 (2)
MW-3I	9, 8	Middle Magothy	106		40 (0.7)	40 (0.7)
SVP-10, Port 5	9	Middle Magothy, Coarse Zone	93	61	n/a	80 (2)
SVP-9, Port 5	9	Middle Magothy, Coarse Zone	182	84	n/a	80 (2)
MW-1I	8	Middle Magothy, Coarse Zone	107	74	n/a	80 (2)
MW-2I	8	Middle Magothy, Coarse Zone	111	91	n/a	80 (2)
EW-1D	7, 6, 5	Middle Magothy, Coarse Zone	85	83	n/a	80 (2)
SVP-2, Port 4	7	Middle Magothy, Coarse Zone	148	84	n/a	80 (2)
SVP-10, Port 3	7	Middle Magothy, Coarse Zone	109	82	n/a	80 (2)
SVP-3, Port 3	6	Middle Magothy, Coarse Zone	123	86	n/a	80 (2)
SVP-11, Port 2	5	Middle Magothy, Coarse Zone	80	50	n/a	80 (2)
SVP-10, Port 1	3	Basal Magothy	91	62	60 (1.2)	80 (1.2)

Blank cell: data not available or usable for analysis. n/a – not applicable, Middle Magothy, coarse zone was added to the model based on aquifer test results



Figures

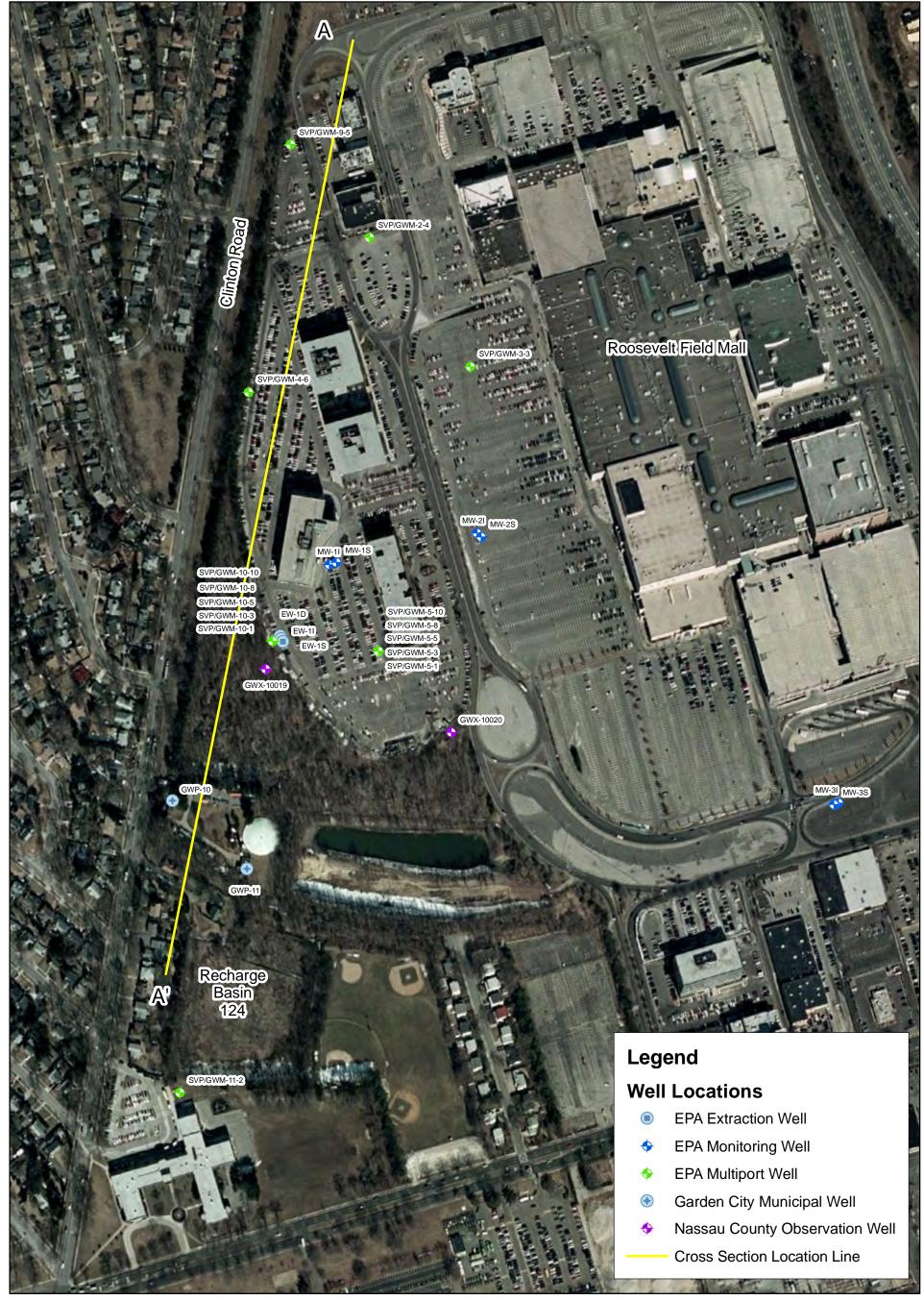




Figure 2-1 Sustained Yield Test Monitoring and Pumping Well Location Map
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York
CDM

Figure 2-2
Geologic and Groundwater Flow Model Cross Section
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

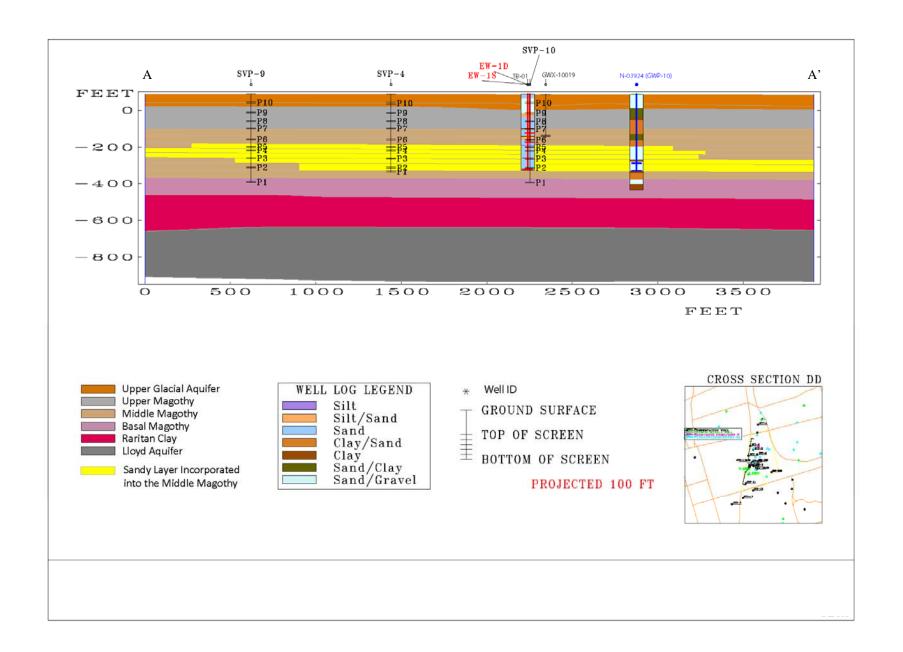


Figure 4-1
Well SVP-10 Water Level Data
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

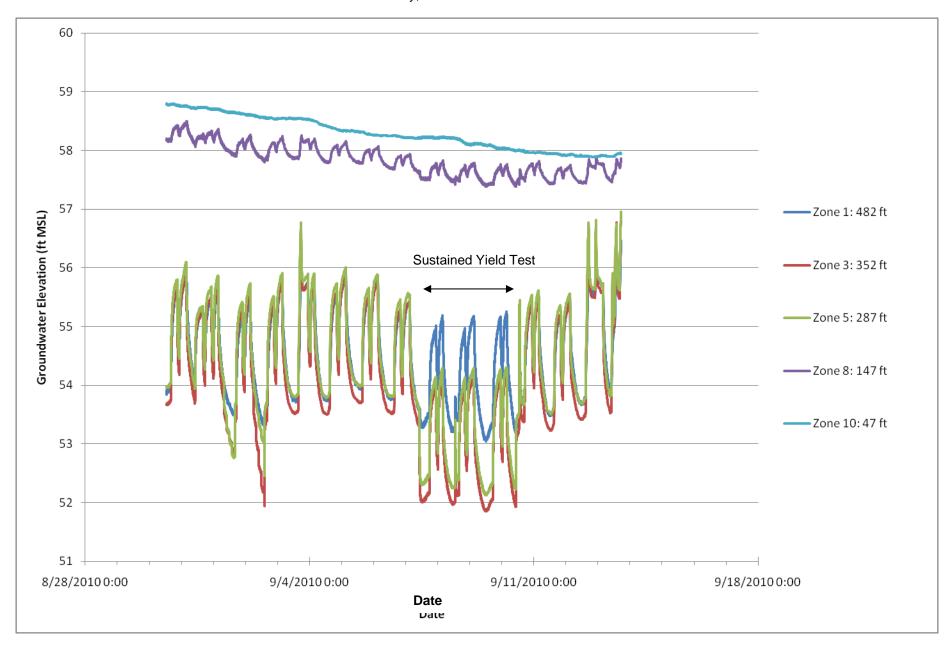


Figure 4-2
Well EW-1I Step Test Water Level Data
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

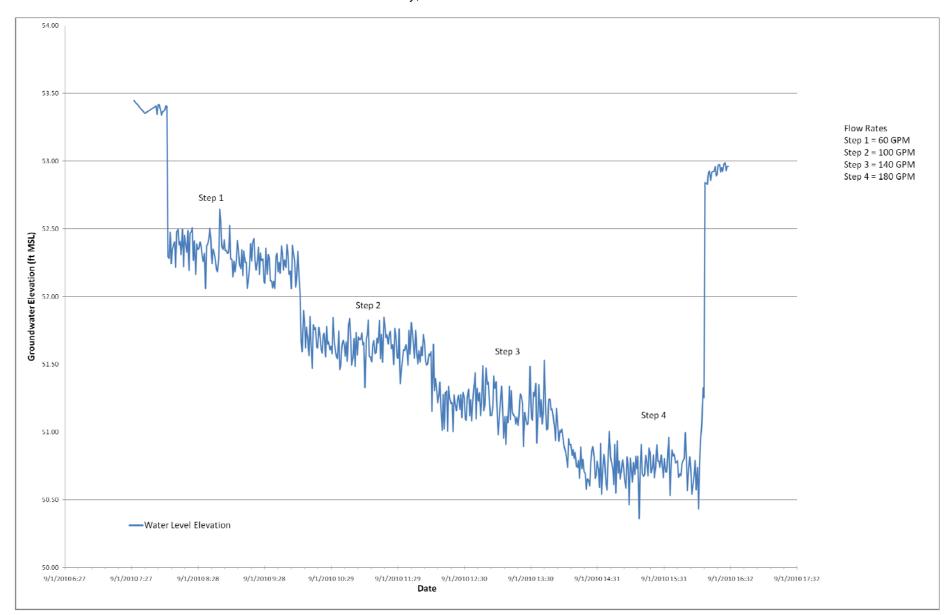


Figure 4-3
Well SVP-10, Port 3 Data Analysis: Extraction Well Pumping
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

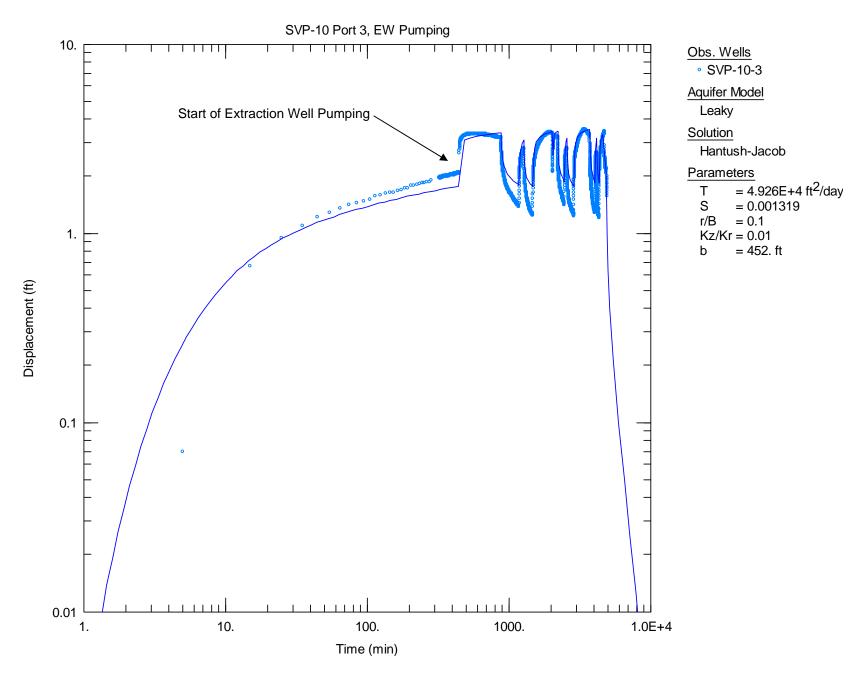


Figure 4-4
Distance Drawdown Graph: Extraction Well Pumping
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

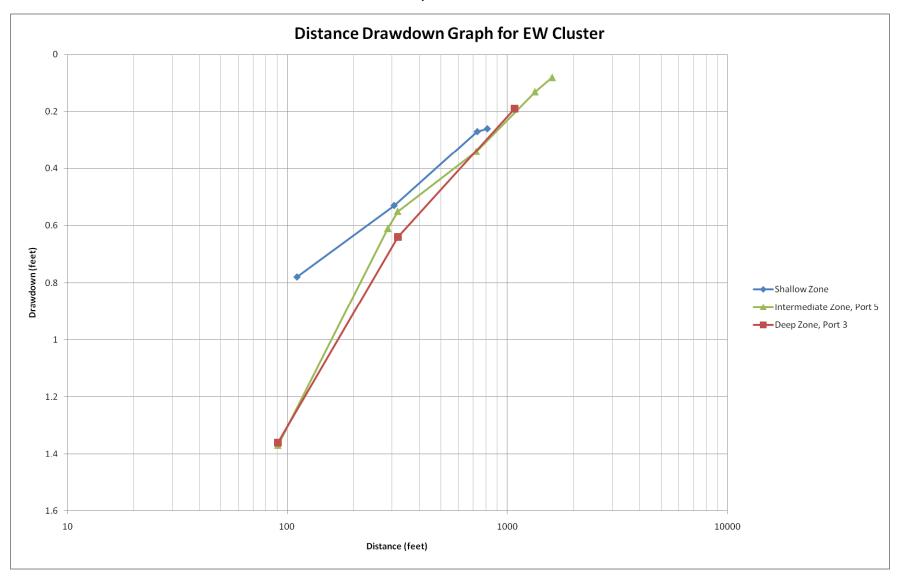
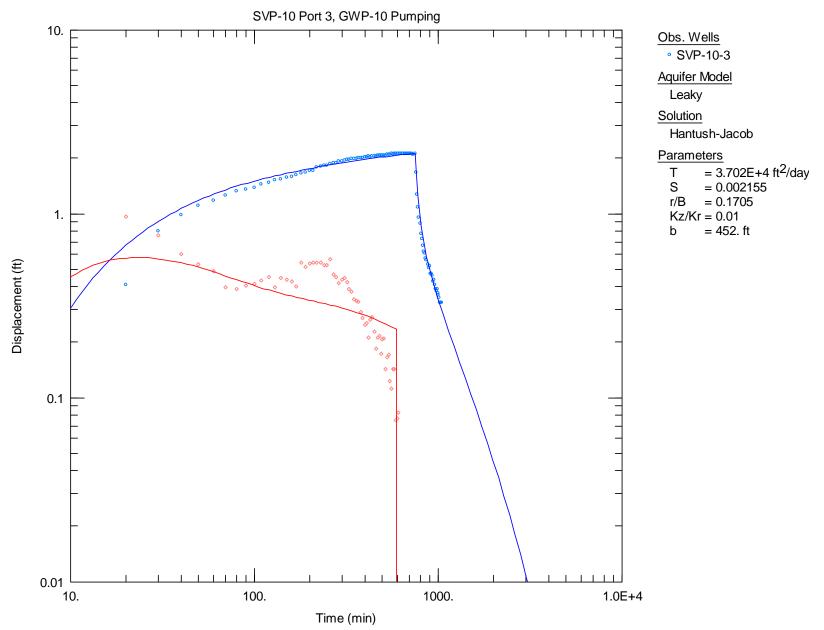


Figure 4-5 Well SVP-10, Port 3 Data Analysis: Well GWP-10 Pumping Old Roosevelt Field Contaminated Groundwater Area Superfund Site Garden City, New York



Appendix A SVP-05 and SVP-10 Transducer Deployment Information



MOSDAX Probe String

Installation Field Record

Project N Rooseveld Fiel2	Well No: SUP-5	ву: <u>6</u> \$	
Client: CDM	Location: Reosevel Field	Date: 8/33/10	

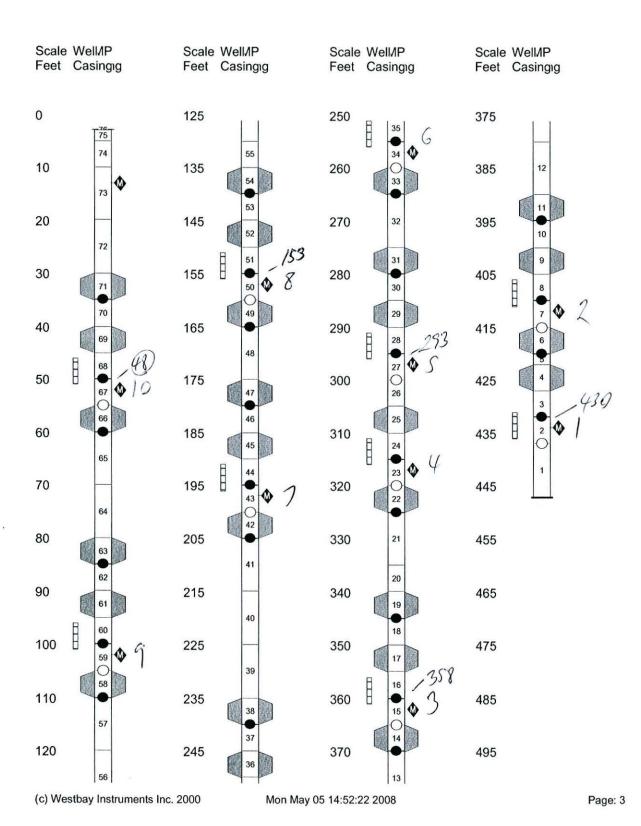
Installation Data

			-				·	γ		
Port No.	Zone No.	Nom. Depth	Collar Depth	Cable No.	Cable Length	Probe No.	Probe S/N	Prev. Press. Data (Po, psia)	Pi Inside Westbay (psia)	Po Outside Westbay (psia)
0	1	_	_			0	3575	-	-	_
1		430				1	3952	187.58	189.17	187.71
				3-1	72.0					
3		358				2	2200	156.12	15F.05	156,46
	,			5-3	65.0					
5		293				3	2585	128,27	129.96	128.56
				8-5	140.0				-	
8		153				4	3017	68.85	6934	64,90
)				10-8	105-0					
10		48				5	2606	23.74	23,89	53.55
				0-10	CP-0		×			
			V							

Datalogging Settings

Schedule	MAGI Settings
Scan Rate:	Power Save:
Collect Rate:	Beeper:
Start Time:	External Power:

Casing Installation Log Aquifer Drilling & Testing, Inc.



Fabrication of MOSDAX 2518 Probe Cables Assembly Record and Acceptance Tests

Page 1 of 1

Client: CDM

Borehole No.: SVP-5

No. of Probes: 5

Depth: 446 ft

Project No.: WB845

Port	Nom. Port	Cable ID	ID Nominal Length	Cable		Top Assembl	у	Bottom Assembly			Continuity Tests			Final	Final
No.	Depth (ft)	No.	(ft)	Туре	# Strands	Adhesive	Connector	# Strands	Adhesive	Connector	A = Center	B = Armor	A to B	Length (ft)	Accep
		0-10	68.00												
10	48														
		10-8	105.00												
8	153														
		8-5	140.00												
5	293														
		5-3	65.00												
3	358														
		3-1	72.00												
1	430														
			(430.00)												
			-												
			-												
			-												

lianad.	Doto
Signed:	Date:



MOSDAX Probe String

Installation Field Record

Project: (DM - Roosevel) Field	Well No:	SUP-10	By: OS	
Client: CDM	Location:	Receivell Field	Date: 8/23/10	

Installation Data

Contract to the Contract of th	And the second second second second									
Port No.	Zone No.	Nom. Depth	Collar Depth	Cable No.	Cable Length	Probe No.	Probe S/N	Prev. Press. Data (Po, psia)	Pi Inside Westbay (psia)	Po Outside Westbay (psia)
0							3414	1	36	14.62
1		482					3951	208.46	211.27	209.04
				3-1	130'					
3		352				Q	2532	152.08	154.89	152.70
				5-3	a5"					
5		287				7	2437	124.02	126-72	124.68
				8-5	140'		Property of the second			
8		147				4	1783	64.96	66.12	65.05
				10-9	1001				22.76	
10		47'				5	2593	21.83	65.0	21.65
				0-10	67'					
				•						
						×				
						e i				

Datalogging Settings

Schedule	MAGI Settings
Scan Rate:	Power Save:
Collect Rate:	Beeper:
Start Time:	External Power:

Page 1 of 1

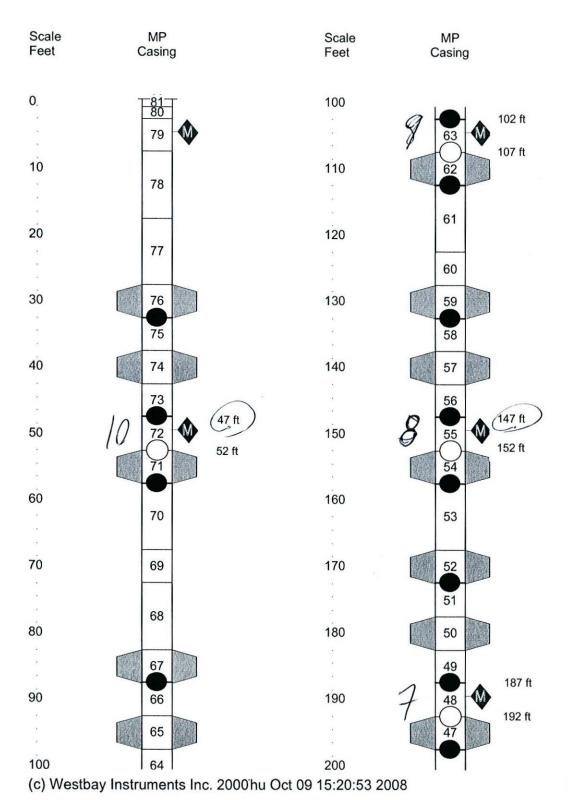
Fabrication of MOSDAX 2518 Probe Cables Assembly Record and Acceptance Tests

Client: CDM Borehole No.: SVP-10 No. of Probes: 5 Depth: 497 ft Project No.: WB845

Port	Nom. Port	Cable ID	Nominal Length	Cable		Top Assembl	y	В	ottom Assemi	bly	C	Continuity Test	ts	Final	Final
No.	Depth (ft)	No.	(ft)	Туре	# Strands	Adhesive	Connector	# Strands	Adhesive	Connector	A = Center	B = Armor	A to B	Length (ft)	Accept
		0-10	67.00												
10	47														
		10-8	100.00												
8	147	l.													
		8-5	140.00												
5	287														
		5-3	65.00												
3	352														
		3-1	130.00												
1	482														
			(482.00)												
_															
_															
			-												
				-											
			-									_			
			-												

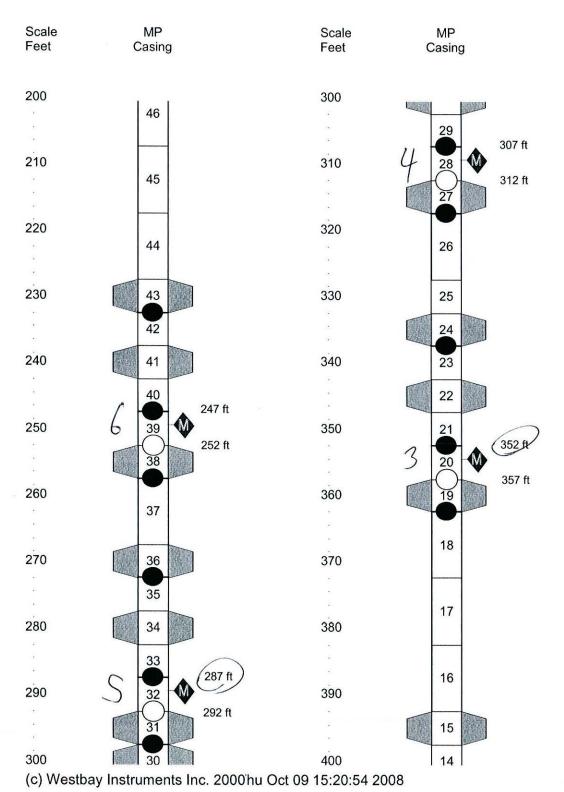
Ciana a di	Data
Signed:	Date:

Summary Casing Log CDM



Page: 3

Summary Casing Log CDM



Page: 4

Summary Casing Log CDM

Scale Feet	MP Casing	Scale Feet	MP Casing
400	2 13 402 ft 407 ft	500	
410	11	510	
430	10	520 530	
440	9	540	
450	8	550	
460	7	560	
470	6 5	570	
480	4 3 482 ft	580	
490	2 487 ft	590	
500 (c) Westba	y Instruments Inc. 2000'hu (600 Oct 09 15:20:54 200	8

Table 3b, Depths of Key Items for Westbay monitoring well: SVP-10.

Zone No.	Screen Interval* (From video log)	Packer No.	Packer Serial No.	Nominal Packer Position ***	Magnetic Collar Depth	Measurement Port Depth**	Pumping Port Depth**	Port Name
Zone 1	480-485	Ĺ	16336	472	484	482	487	Zone 1
QA I		2	16337	462		467		QA 1
QA 2		3	16235	407		412		QA 2
Zone 2	400-405	4	16224	392	404	402	407	Zone 2
QA 3		5	16233	357		362		QA 3
Zone 3	350-355	6	16232	342	354	352	357	Zone 3
QA 4		7	16231	332		337		QA4
QA 5		8	16250	312		317		QA 5
Zone 4	305-310	9	16248	297	309	307	312	Zone 4
QA 6		10	16249	292		297		QA 6
Zone 5	285-290	11	16247	277	389	287	292	Zone 5
QA 7		12	16246	267	3	272		QA 7
QA 8		13	16255	252		257		QA 8
Zone 6	245-250	14	16254	237	249	247	252	Zone 6
QA 9		15	16253	227		232		QA 9
QA 10		16	16252	192		197		QA 10
Zone 7	185-190	17	16251	177	189	187	192	Zone 7
QA 11		18	16236	167		172		QA 11
QA 12		19	16237	152		157		QA 12
Zone 8	145-150	20	16238	137	149	147	152	Zone 8
QA 13		21	16245	127		132		QA 13
QA 14		22	16239	107		112		QA 14
Zone 9	100-15	23	16240	92	104	102	107	Zone 9
QA 15		24	16244	82		87		QA 15
QA 16		25	16243	52		57		QA 16
Zone 10	45-50	26	16242	37	49	47	52	Zone 10
QA 17		27	16241	27		32		QA 17

^{*} Depths are with respect to ground level.

^{**} Component positions are referenced to the top of the subject Westbay System coupling.

^{***} Packer positions are referenced to the top Westbay System coupling on the packer.

Appendix B Pump and Flow Meter Information

Myers

THE RANGER™ 4" SUBMERSIBLE PUMPS

THE RANGER™

The Ranger™ Series 4"
high-flow submersible pumps
are perfect for applications
requiring a large volume of
water. Stainless steel components and high-density
composite resin impellers
provide exceptional resistance
to corrosion in harsh water
conditions. The high-torque
motor and superior pump
hydraulics are carefully
matched to handle virtually
any job.

APPLICATIONS

Water systems... irrigation, industrial, commercial, multiple housing and farm clean water use

SPECIFICATIONS

- Shell 304 Stainless Steel
- Discharge 304 Stainless Steel
- Discharge Bearing Buna-N
- Impellers Noryl®
- Diffusers Noryl
- Suction Caps Noryl
- Shaft and Coupling 304 Stainless Steel
- Intake 304 Stainless Steel
- Intake Screen 304 Stainless Steel
- Cable Guard 304 Stainless Steel
- Check Valve Polyester Teflon®
- Fasteners 304 Stainless Steel

FEATURES

Turn Up the Volume

High-flow capacities to 100 GPM make the Ranger 4" sub the easy choice for the really big jobs

More Stainless Steel

Shell, discharge and suction bowl, shaft and coupling, lead guard and suction screen – all lead-free

Staged for Toughness

Specially designed, high-density thermoplastic impellers resist the corrosive wear from harsh water conditions

High-powered Performance

Features a high-torque, heavy-duty motor for the most demanding applications







Noryl® is a registered trademark of the General Electric Company. Nylatron® is a registered trademark of The Polymer Corporation. Teflon® is a registered trademark of Dupont. Ranger™ is a trademark of Pentair Water.

ORDERING INFORMATION - PUMP

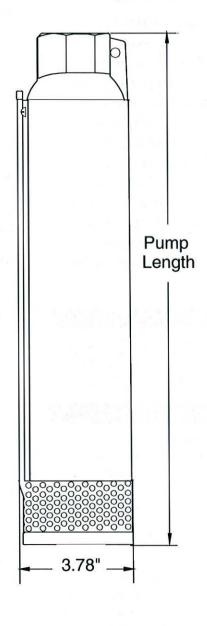
			A	ssembled Pump)
GPM	НР	Stages	Catalog Number	Length Inches*	Weight Pounds
	1	7	SS10-25	18	12
	1-1/2	9	SS15-25	21	14
0.5	2	11	SS20-25	24	15
25	3	15	SS30-25	30	19
_ [5	25	SS50-25	48	27
	7-1/2	37	SS75-25	67	55
	1	4	SS10-35	15	10
ĺ	1-1/2	6	SS15-35	18	12
35	2	8	SS20-35	22	14
	3	11	SS30-35	28	17
[5	18	SS50-35	43	24
	7-1/2	28	SS75-35	62	52
	10	37	SS100-35	75	63
P	1-1/2	6	SS15-50	21	14
	2	7	SS20-50	23	15
50	3	10	SS30-50	31	19
30	5	16	SS50-50	48	27
	7-1/2	25	SS75-50	70	59
	10	32	SS100-50	84	68
	2	6	SS20-80	29	16
	3	9	SS30-80	39	20
80	5	14	SS50-80	59	45
	7-1/2	22	SS75-80	66	59
	10	27	SS100-80	100	69

MOTOR / CONTROL BOX

		1		PENT	r	PENTEK Control Box	
НР	No. of Wires	Volts		Catalog Number	Length Inches*	Weight Pounds*	Catalog Number
_	2	230	1	P42B0010A2	12	22	
1	3	230	1	P43B0010A2	12	22	SMC-CR1021
	2	230	1	P42B0015A2	15	30	
1-1/2	•	230	1	P43B0015A2	14	27	SMC-CR152
	3	230	3	P43B0015A3	13	23	SMC-CR1521
2	3	230	1	P43B0020A2	15	29	SMC-CR202
2	3	230	3	P43B0020A3	14	27	SMC-CR202
3	3	230	1	P43B0030A2	24	49	SMC-CR302
3	3	230	3	P43B0030A3	21	40	SMC-CR302
5	3	230	1	P43B0050A2	30	66	SMC-CR502
5	3	230	3	P43B0050A3	24	50	SMC-CR502
7-1/2	3	230	3	P43B0075A3	30	66	SMC-CR752

 $^{^*}$ Length and weight are approximate.

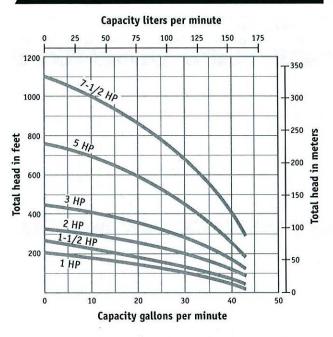
OUTLINE DIMENSIONS



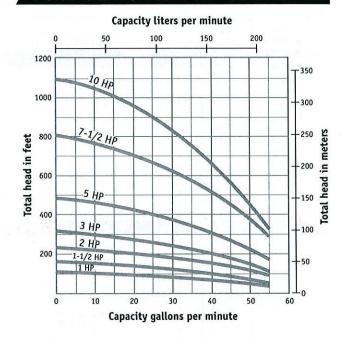


THE RANGER™ 4" SUBMERSIBLE PUMPS

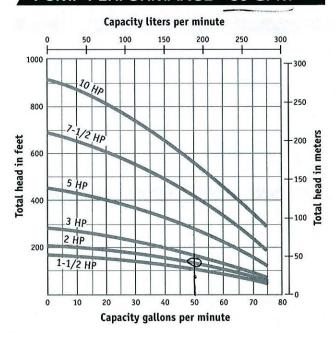
PUMP PERFORMANCE - 25 GPM



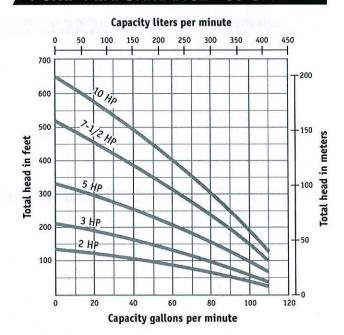
PUMP PERFORMANCE - 35 GPM



PUMP PERFORMANCE - 50 GPM



PUMP PERFORMANCE - 80 GPM



THE RANGER™ 4" SUBMERSIBLE PUMPS

up	Catalog	Tank			4								Pump	oing D	epth in	Feet										
HP	Number	Pressure	0	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	85
25 G	ALLONS I		-						1																	
1	SS10-25	20/40 30/50	35 30	31 28	27 22	22 17	18 12	11														5				
1-1/2	SS15-25	20/40 30/50	36	33	33 30	30 27	27 23	23 20	20 15	15				-												-
2	SS20-25	20/40 30/50			38	36	36 33	33 31	31 27	28 24	25 20	21 16	17													
3	SS30-25	20/40 30/50							36	34	32	33 30	30 28	25 22	18 15											
5	SS50-25	20/40 30/50								17			38	37 36	34 33	31 30	28 27	25 24	22 21	18 16	13		2	-		
7-1/2	SS75-25	20/40 30/50														39	37	36	34 34	32 32	30 29	28 27	26 24	23 22	19 18	1
35 G	ALLONS I		TE													00	01	00	01	OL.	LU	.,			10	
1	SS10-35	20/40 30/50	37 25	25						-1																
1-1/2	SS15-35	20/40 30/50	49 42	43 34	35 26	28 15																				
2	SS20-35	20/40 30/50		50	50 46	46 40	41 33	35 26	27 16																	
3	SS30-35	20/40 30/50				49	49 45	46 42	42 37	38 33	33 26	27 21	15													
5	SS50-35	20/40 30/50								49	49 47	47 45	45 43	39 36	32 28	23 18										
7-1/2	SS75-35	20/40 30/50	.04					7							50 49	47 46	44 43	40 38	36 34	32 30	27 24	16				
10	SS100-35	20/40 30/50														51 49	49 48	48 47	46 45	43 42	40 39	38 37	35 34	32 30	29 27	2 2
50 G	ALLONS I	PER MINU	TE																						T T	
1-1/2	SS15-50	20/40 30/50	65 55	56 45	46 34	37 20																				1
2	SS20-50	20/40 30/50	70 64	63 55	56 47	47 40	40 29	30																		
3	SS30-50	20/40 30/50	70	70 64	64 60	60 55	55 49	50 44	44 35	36 29																
5	SS50-50	20/40 30/50				72 70	70 66	67 64	64 60	61 57	57 54	54 50	51 46	41 36	30 23											
7-1/2	SS75-50	20/40 30/50									70 67	67 65	65 63	60 58	55 53	49 46	43 40	35 32								
10	SS100-50	20/40 30/50												68 67	65 63	61 59	58 56	53 51	48 46	44 42	39 37	33 30	,			
80 G	ALLONS I	PER MINU	TE																							
2	SS20-80	20/40 30/50	75 58	56 40	40																					
3	SS30-80	20/40 30/50	93 81	81 71	72 60	60 48	50 37									6										
5	SS50-80	20/40 30/50	100	101 94	94 88	87 80	80 72	72 62	63 58	57 50	49 40	40														
7-1/2	SS75-80	20/40 30/50		-	104	104 100	100 96	96 90	91 87	87 82	82 78	77 72	72 67	60 52	45 39											
10	SS100-80	20/40 30/50				, 50	30	104 101	97 95	95 93	93 90	89 86	84 81	72 70	68 65	58 55										

16273

Serial Number	NA		Reading	128	
Flow Rate	Low	Inter (20.0	Full 275.0		
Test Registration	1	V			
Factor				LAWC	0
Final % Registration	990	99.0	99.0	,	
Reg. Gear Gliconos	SB G	ear Ans N.C	Size 3"	Cu. F Gal.	t. 🔾
	Metri		erKiB	Date 2/2	DIO

Flo Re
Tr F

Serial Number	N	<u> </u>	Reading	334	11.5
Flow Rate	4.0	Inter D	Full 10.0		
Test Registration	Fig.	V	V		
[actor			>	L	AWCO
Final % Registration	97.D	/0/. D	99.8		
Reg. Gear	NIC EL.	iear ectripic	Size 2"		Cu. Ft. Gal.
StyleSea	Metr	Teste	rkub	Date 🗘	12010

hozol

Serial Number	NA		Reading	10.4
Flow Rate	Low L. O	Inter 60.0	Full //0.0	,
Test Registration	1	V	4	
Factor	V		-	LAWCO
Final % Registration	1040	1040	1040	
Beg. Gdar	Vic Ele	efun!C	Size 2"	Cu. Ft. Gal.
		Ri C Test		Date 2/2010

Appendix C Step Test Water Level and Flow Rate Data

Step TESTING

NAME: F. Robinson / S. Dohnghay DATE: 8/3/10 WELL: EW-15 STEP 1 Flow Rate: 806 Pm Elayard TIME E.T. DTW D. DOWN **TOTALIZER FLOW RATE** 3659.1 STATIC 33.93 0,5 0800:30 35.22 0801 35.92 3 9.8 2 35.80 0802 40 3 35.81 0803 39.8 0804 35.92 0865 35.99 0806 80.2 35.88 0807 40.3 35.98 0808 40.3 0809 35.97 40.5 40.3 36.03 0810 36.03 80.0 0811 40.0 0812 36.03 36.03 39.8 6813 36.02 39.7 0814 14 36.00 39.6 0815 15

Dage 1.12

36.03

36.02

36.03

36-03

36.02

0820 20

0825 25

0830 30

083535

0840 40

39.7

39.9

39.4

39.7

39.7

44 68.5

483 46.5

Step TESTING

		01 17	TESTING	
DATE: 8/	3,110	NA	ME: FR/JD	
WELL: E	U-15	S.	top 7: Flow Rate	40 6 Pm
TIME ET	DTW	D. DOWN	FLOW RATE	TOTALIZER
0845 45			39.9	5434.9
0850 50	36,07		39-8	
	36.08		39.8	60 23. 2
0910 70	36.09		39.6	
	34.13		39.8	6807.5
9730 90	36.13		40.0	
0945 /00	36.13		39.7	7549.3
0950 /10	36.15		31.8	
1000 /20	36.18		39.6	

	/			de la companya de la
-				

	CONTRACTOR STATE OF THE STATE O			
		Walter Company of the		SACRET COMMON CO
		well-unus automorphism to the state of the s		

	transfer to the second			

page 212

Step **TESTING**

DATE: 8/31/10

NAME: FR/JD Stop 2 Flu Rute = 60 WELL: EG-15

TIME ET	DTW	D. DOWN	FLOW RATE	TOTALIZER
1000:30 0.5	37.08		60.0	
1001 1	37.20		60.0	8456.6
1002 2	37.15		60.0	
1003 3	37.17		60.0	
1004 4			60.0	
1005 5	37.22		60.0	
1006 6	37.22		60.0	
10077	37.23		60.0	
1008 8	37.26		60.0	
1009 9	37.22		60.0	
1010 10	37.24		60.0	
1011 11	37.20		60,0	
1012 12	37.23		60.0	
1013 13	37.26		60.0	
1014 14	37.22		60.0	
1015 15	37.23		60.0	
1020 20	37.22		60.0	
1025 25	37.13		60.0	
103030	37.05		60.0	10164.4
1037 35	36.96		60.0	
1040 40	36.91		60.0	

20122

DATE: 19 8/3//10	NA NA	ME: FR+ JD	
WELL: EW-15		Step 2 Flw 1	2k = 60
TIME ET DTW	D. DOWN	FLOW RATE	TOTALIZER
1045 45 36.85		60.0	
1050 50 36 83		60.0	
1100 60 36.70		60.0	
1110 70 3665	36.61	60.0	
1/20 80 3661	36.61	60.0	
1130 80 36.61		60.0	
1140100 36.59		60.0	· · · · · · · · · · · · · · · · · · ·
1150 110 36.55		60.0	
1200 120 36.56		60.0	

4			
		a de la composition	

Step TESTING

DATE: 8/31/10 NAME: FR+ JD Stap 3 Flow Rate - 75 GPM WELL: FW-15

TIME ET DTW D. DOWN FLOW RATE 1200:30 0.5 37.04 1201 1 37.21 1202 2 37.20 1202 3 37.20 1204 4 37.23 1206 6 37.21 1207 7 37.21 1208 8 37.22 75	/6042.7
1201 1 37.21 75 1202 2 37.20 75 1202 3 37.20 75 1204 4 37.23 75 1206 6 37.21 75 1207 7 37.21 75	/6092.7
1202 3 37.20 75 1204 4 37.23 75 1205 5 37.20 75 1206 6 37.21 75 1207 7 37.21 75	/6092.7
1204 4 37.23 75 1205 5 37.20 75 1206 6 37.21 77 1207 7 37.21 75	/6092.7
1206 6 37-20 75 1206 6 37-21 77 1207 7 37-21 75	16092.7
1206 6 37-21 FT	16042.7
1207 7 37.21 75	
1209 9 37.25 75	
12/010 37.23 75	
1211 11 37.23 7	
121212 37.25 75	
12/3/3 37.22 75	
1214 14 37-22 75	
1215 15 37.23 75	
122020 37.22 75	
122525 37.18 75	
1230 30 37.22 75	17912.4
1235 35 37.21 75	
124040 37.22 76	

DATE: 8/31/10	NA NA	ME: FR+ JO	
WELL: Ew-15		Flow Rak = 70	TGPM
TIME ET DTW	D. DOWN	FLOW RATE	TOTALIZER
1245 45 37.22		76.0	
1250 50 37.22		76.0	
1255 55 37-18		7500	THE RESPONSIBLE OF THE PARTY OF
1255 55 37.18 1300 1300 60 37.20		75.0	20/65/
13/0 70 37.18		75.0	
1320-80 37.19		75.0	
1330 90 37.18		75.0	22510.3
1340 100 37.21		75.0	
1350 110 37.18		75.0	
1400 120 37.18		H.0	
			<i>y</i>

Step TESTING

DATE: 8/31/10 NAME: FR+ JD WEII. FS-15 Step 4: 906 pm WELL: FS-15

TIME ET DTW D. DOWN	FLOW RATE TOTALIZER
1400:300.5 37.75	906Pm 24713.6
1401 1 37.78	90 6 Pm
1402 2 37.82	90 6pm
1403 3 37.84	90.0600
1404 4 37.85	90 GPm
1405 5 37.85	90 GR
1406 6 37.84	90 GPn
14077 37.86	90 Gpm
1408 8 37.86	90 GA.
1409 9 37.85	90 brn
1410 10 37.86	90 Gpm
14/1 11 37.87	90 602
1412 12 37-82	90 6pm
1413 13 37.87	90 GPm
1414 14 37.84	90 6 pm
1415 15 37.82	90 6 Pm
1420 20 37.87	90 sen
142525 37.85	90 6Pm
1420 30 37.86	90 GPM
143r 35 37.86	90 GPM
1440 40 37,86	90 6 Pm
1445 45 37, 8632	to it

1 100 x 16 4000 mt.

ORF WATER LEVEL DATA

parameter and and property of

	26	IES	IING		
DATE: 8/3/1/0		NAME:	FR+J	1	CONTRACTOR OF THE PARTY OF THE
WELL: FW-25		S	tep 4: 9	o GPm	
TIME FT DTW	D. DOWN	FL	OW RATE	TOTA	ALIZER
1445 45 37.86		*********	90		
1450 50 37.86			Co		
4rr 55 37.80	e		20 G	Om	
1500 60 37.84			90	30	052.2
1510 20 37.87			90		
1520 80 37.87		***************************************	90		
1530 90 37,86		***************************************	90 G	Pm 3.	2776.3
1540 100 37.86			90		
1550 110 37.86			90		<u> </u>
1600 120 37.85			90 6P	4-	
· (AB 120 81.6)			70 017	7	
	ater Que	.l+·,			
time Toc Cond		PH	ORP	NTU	
	3.07		184.7	1.2	
1550 17.31 0.642	3.07	***************************************	188.3	1.1	
	2 2.16	4.59	188.4	1.2	
1600 17.33 0.641		4.61	189.2	1-1	
				7	
Final How me	to rec	eding	363	385.7	EW-15
Final How me	V	/		59.1	EW-15
		stal		26.6	
Frual flow Mt.	_			6859	Cembined
Trital an Mar	to son 1	1111	1769	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME	· ·
Initial flow Me	es o custi	ng.		4496	Com 3INED
00=ms// cond	m 3/C	- ~		1//6	

. 1	ř		10	100	
DATE: 8/3	51/10	N/	AME: FR	30	
WELL: Eh	1-15\$	Re	2Co-y	Por do	H @ 16/0
TIME ET	DTW	D. DOWN	FLOW F	RATE	TOTALIZER
16/0:30 0,5	34.08				
	33.83		*****		
Name and Address of the Owner, where the Owner, where	33.67				
1613 3	33.62	<u> </u>			
1614 4	33.52	33.59			
1615 5	33. 55				
1616 6	33,55				
617 7	33.54				
1618 8	33-55				
16 19 9	33.57				
1620 10	33.57				
1621 11	33.53				
	33.53				
1623 13	33.57				
1624 14	33.60				
1125 15	33.60			*	
1636 20	33.67				
1635 25	33.70				
	33.80				
1645 35	33.88				
1650 40	33.88				
Marine - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				THE STATE OF	

DATE:	9	11/10	NA	ME: AR+J()
WELL:	Ew	1-1 <u>D</u>	Static	Step 1:406	1m, totalizer state 535. Y Galley
TIME		- TW - The rest !	D. DOWN	FLOW RATE	TOTALIZER
080:36	0.5	36.30		%.7	
0801		36.80			
6802	2	36.05		40.3	
0803	3	36,08		40.2	
0804	4	36.07		40.4	
0805		36.10		40.5	
0806	6	36-11		40.6	
0807	-7	36.09		40,5	
0808	8	36.12		90.1	
0809	9	36.09		40.4	
0810	10	36.12		40.5	
0811	11	36.14			
***************************************	12	missed	reading, No	ITES BY DOUG	HEATY
0613	13	36.17		40.4	/
0814	14	36.15		40.4	
0216	15	36.17		40.3	
0820	20	36.17		40.7	Relinguish to (1).
0825	25	36.16		40.2	Frank Rosinson
0830	30	36.17		40.6	
0835	3.5	36.17		40.5	
0840	40			40.3	
0841	45	36.20	·	40.2	

Step TESTING

NAME: FR+ JD Step 1= 406PM DATE: 911/10

WELL: FW-17

TIME ET	DTW	D. DOWN	FLOW RATE	TOTALIZER
0850 50	36.20		40.5	
0855 55	36.20		40.7	
0 900 60	36.19		40.3	
0910 70	36.2x		40.4	
092080	36.25		40.3	
090 90	36.27		40.3	
0940 100	36.31		40.3	4587.2
0950 110	36,30		40.3	
1000 120	36.33		40.3	
	· · · · · · · · · · · · · · · · · · ·			

	WANTED TO SEE HE AND A CO-WANTED			-
				T

	W-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		***************************************	

Step TESTING

DATE: 9/1/10 NAME: FR+JD

WELL: EW-1I Step 2= 60 6Pm

TIME	ET D	TW	D. DOWN	FLOW RAT	E TOTALIZER
1000:30	0.5	3655			
1001	1	36.80		616th	
1002	2	36.83		626Pm	
1003	3	36.83		60 6Pm	\
1004	4	36.82		60 bpm	
1005	5	36.82		60 GPn	
1006	6	36.82		60 GPr	7
1007	7	36.81		60 614	
1008	8	36.81		60 6Pm	
1008	9	36.82		60 GP	7
1010	10	36.83		60 GP	
1011	11	36.82		60 60	'n
1012	12	36.82		60 600	<u> </u>
1013	/3	36-83	3	60 66	'n
1014	14	36.81		60 6	l'n
1014	15	26.81		60 61	Pm
1020	28	Fr 36.83		60 61	^o n_
1025	25	n 36.82		60 6	(n
1630	38 1	a 36-8	l	60	61m
1035	35	Fe 36.8	4	60 (SPh
1040	40	36.8	12	60	Gen
1045	48	36.8	3	60	6pn

				ILJIIII	<u> </u>		
DATE:	9/1/	10	N/	AME: /	R+ JD		
WELL:	EW-	1 <u>T</u>	ı	Step	2= 606	ipn	
TIME	ET DI	ΓW	D. DOWN	FLOW	/ RATE	TOTALIZ	ER
10 50	So	36.81		606	Ph		
		36.82		60	600		
1100	60	36.83		60	GPh		
1110	70	36.86		60	GPM		
1120	80	36-87			Gpn		
1120	Ŷ o	36.82		60	Gpm		
1140	100	36.86		60	Gpn		
The second secon	110	36.88			(py		
1200	120	36.88		60	6 Pm		
***************************************	CAMMANUC CO.		***************************************				
Partition of the Control of the Cont				**************************************			
	***************************************	***************************************					***************************************
etimo di madalimi di anno di							

-) and the second	

Particular section in the section is a section of the section of t		Maria de de la composição					***************************************
***************************************	***************************************						

Step TESTING

DATE: 9/1/10 NAME: FR+ JD

WELL: EW-II Step 3=75 6Pm

TIME	ET	DTW	D. DOWN	FLOW RATE	TOTALIZER
1200:30	0.5	S7.20			
1201	1	37.25		75 6pm	
1202	2	37.27	-	756 pm	
1203	3	37.2	7-	75 GP2	
1204	4	37.2	8	75 GPM	
1205	5	37.2	Ÿ	75 G/n	5
		37.2		75 6Pm	
1207	7	37.2	8	75 6PM	,
1208	8	37.2	₹	75 (Pm	
1209		37.3		75 6Pm	
1210	10	37.3	3.7	75 6Pm	
1211	l1	37.3		75 6Pm	
1212	12	37.	3 1	75 6Pm	\
1213	13	37.3	3 (75 GPM	
1214	iy	37.	28	77 6 Pm	`
1215	lr	37.	28	75 GP4	
1220	20	37.3	/	75 6 Pm	
1275	25	37-3	1	75 6 Pm	
1230	30	37.3	80	75 6Pm	
1235	35	37.	30	7T 6Pm	
1240	40	37	3 (75 GP:	η
1244	45	37.	31	75 6 Pm	

Step **TESTING**

DATE: 9/1/16

NAME: FR+ J1 Step 3= 75 6Pm WELL: EW-1 I

IME	FI	DTW	D. DOWN	FLOW RATE	TOTALIZER
50	50	37.32		756Pm	
rr	35	37.32		75 6Pm	
0 9	60	37.33		7T 6Pm	17039.6
3/0	Fo	37.32		75 6Pm	
320	80	37.33		75 6Pm	
330	Su	37.32		75-684	#1 * 10 * 10 * 10 * 10 * 10 * 10 * 10 *
340	100	37-32		75 6 Pm	
320	110	37.34		71 GPM	
350	120	37.35		75 6Ph	
	**************************************			William Committee to the committee of th	
					2/11///
	*********				anto en Casa de Arrante en la companya de la compa
		ANNON, ETO ESTRANO			

Step **TESTING**

DATE: 9/1/10

NAME: PRA JD Step 4= 806PM WELL: EW-1I

TIME	ET D	TW D. DOWN	N FLOW RATE	TOTALIZER
1400:30	0.5	37.73		
1401		37.73	906Pm	
1402	2	37.7y	90 6Pm	
1403	3	37.74	90 6.pm	
1404	4	37.75	90 GPn	
1405	5	37.75	90 GP2	
1406	6	37.74	90 6pm	
1407	- 7	37.76	90 6 pm	
1408	8	37.76	90 6Pm	
1409	9	37.76	90 6Pm	
1410	/u	37.76	le 6en	
1411	11	37.74	90 6Pm	
1412	12	37.75	90 6Pm	
1413	13	37.76	90 GPM	
1414	Ly	37.75	90 6Pm	
1415	15	37.7	90 GPH	٦
1420	20	37.75	20 6 m	
1425	25	37.76	90 684	
1430	140	37.76	90 GPA	1
1435		750	90 GPm	
1440	Yo	37.75	90 GP	7
1445	45			

Ster **TESTING**

NAME: KR+ JD DATE: 9/1/10

5+p %= 90 GPM WELL: EW-II

TIME	ET	DTW	D. DOWN	FLOW RATE	TOTALIZER
1450	Su	37.76		906Pm	
1455	51	37.76		90 GPM	
1500	60	37.75		90 61%	
150	70	37.76		90 GPM	
1520	80	37.75		go GAM	
1530	90	34,75		90 GPM	
1540	100	37.74		90 GPM	
		37.75		906 pm	
		37.75		90 6Pm	
				er End = 3289	13.7
	CL	@ 1608			

Water Quelity									
Time	J°C	Cond	00	PH	ORP	NTU			
1545	15.98	0.394	5.42	4.58	238.7	1.24			
1550	15.95	0.394	4.33	4.53	250.3	0.51			
1555	15.95	0.393	4.23	4.55	252.5	0.53			
1800	15.98	0.392	4.09	4.56	254.6	0.71			

00= mgll Cond = m5/cm

8 of 9

Stop TESTING

DATE: 86/10	NA.	ME: FR+ JD	
WELL: EW-1I		Recommy/6	(oP
TIME ET DTW	D. DOWN	FLOW RATE	TOTALIZER
608:30 O.T 35.72			
1609 135,65			
1610 2 35.60			
1611 3 35.58			
1612 4 35.58		MARINE BUDGET STEWART OF CONTROL OF ANY PROPERTY OF ANY PROPER	
1613 5 35.55		Market 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
1614 6 35.56			
16 IT 7 35.56			
1616 8 35.56			
1617 9 35.55			
1618 to 35.57	<i>-</i>		
1619 11 35.59	/		
1620 12 35.54	·		
1121 13 35.59	/		
1622 ly 35.5.	3		
1623 IT 35.5	3		
162820 35.5	У		
1633 25 35.5	l		
1138 30 35.51			
1643 35 35.5	0		
40			
47			

Step TESTING

DATE: 9/2	110	NAME: FR + JD	
WELL: EW		Static = 35.70 to talier:	on = 97850.2.2
TIME ET I	DTW D	DOWN FLOW RATE	TOTALIZER
6600:30 0.5	37.00		
0601 1	37.25		
0602 2	37.40		
06033	37.58	60 6Pm	
Olay y	37-62	6161m	
0605 5	37-61	61 6 Pm	
0606 6	37.61	61 Gpm	
06077	37.65	61 6 Pm	
0603 8	37.65	616Pm	
0609 9	37.65	61 6Pm	
0610 10	37.66	616Pm	
06/1 71	37.66	61 (pm	
0612 12	37.66	61 61680	1
0613 13	37.67	61 6Pm	
0614 14	37.66	(16Pm	
0615 15	37.66	616Pm	
6620 20	37.68	616 pm	
0625 25	37.72	616fm	
6630 30	37.73	61 6 Pm	`
0635 35	37.73	61610	!
6640 40	37.75	61 694	
064/45	37.79	61 6Pm	

Step TESTING

DATE: 9/2/10 NAME: FR+ JD

WELL: EW-10

Step 1: 60 6Pm TIME ET DTW D. DOWN FLOW RATE TOTALIZER 0650 50 37.81 61 6Pm 0655 55 37.82 61612 37.92 0700 60 616Ph 0710 70 37.83 616Pm 37.87 616Pm 0720 80 61 6Pm 984684.7 0730 90 37-89 61 6 Pm 0740 100 37.93 6750110 37.94 0800 120 37.94 616 pm

Step TESTING

DATE: 9/2/10
WELL: EW-1D NAME: FR+JD Step 2: 100 Grn

TIME ET D'	TW D. DOWN	N FLOW RATE	TOTALIZER
6800:36 B.5	39.25		
086(1	38.85		
0802 2	39.25	16/6PM	
0863 3	39.34	99 612	
0604 4	39.15	99 6pm	
080r 5	39.16	100 6Ph	
0808 6	38.21	100 GPM	
0807 7	31.22	100 Gpy	
0808 8	39.22	100 GPM	
0 409 9	39.21	100 6Pm	
0810 10	39.22	100 6Pm	
044 11	39,23	100 Gra	
0812 12	39.23	100 GP-	
0813 1)	39.23	100 GPM	*******************************
6814 14	39.24	100 GPM	
0818 15	39.24	100 GPm	
0820 \$ 20	39.25	100 G/m	
0821 0830 BY 25	39.25	100 6P4	
0830 1830	39.26	100 GPM	
6835 35	39-26	100 Gpm	
0840 40	39.28	100 6Pm	
0845 45	39.28	100 6Pm	

SEP TESTING

NAME: FR+JD DATE: 9/2/10 Step 2: 100 6Pm WELL: EW-1D TIME LT DTW D. DOWN FLOW RATE TOTALIZER 1006 Pm 0850 50 39.28 0855 39-29 100 GPn 39-31 100 Gpm 0700 60 39.32 100 GPm 0910 70 100 cm 39.33 0920 OK 100 6 Pm 90 39.35 0930 39.38 0540 100 100 GPM 39.38 100 GP4 0950 110 100 GPM 1000 120 39.39

Step TESTING

NAME: FR+ JO Step 3: 1406pm DATE: 9/2/10

WELL: Ew-10

TIME	ET	DTW	D. DOWN	FLOW RATE	TOTALIZER
1000:30	0.5	40.52			
1001	1	40.58		140 GSm	
1002	2	40.62		140 GPM	
1003	3	40.63		140 6pm	
1004	4	40.63		140 6pm	
1005	5	40.64		140 6pm	
1006	6	40.65		140 6Pm	
1007	7	40.67		140 GPM	
1008	8	40.68		140 6 Pm	
1009	9	40.68		Mossin	
1010	10	40.68		180 GPm	
1011	<i>i</i> 1	40.69		140 6 Pm	
1012	12	10,70		140 6 pm	
1013	13	40.71		14068m	
1014	14	40.72		140 Gan	
1015	15	40.71		140 6 pm	
1020	20	40.71		140 6 cm	
1025	25	40.73		146 6 pm	
1030	30	40.71		140 6pm	
1035	35	40.71		140 6 Pm	
1040	40	40.72		140 6Pm	
1045	45	40.72		140 6Pm	

Step TESTING

NAME: EROJD Step 3: 140 GPM DATE: 9/2/10

WELL: EW-10

TIME	ET	DTW	D. DOWN	FLOW RATE	TOTALIZER
1050	50	40.73		140 GPm	
1011	55	40.75		1486Pm	
1100	60	40.75		140 Bpm	
1116	70	40.76		NO GPA	
1120	80	40.79		140 BPM	
1130	90	40,82		140 GPM	
1140	100	40.82		140 GPn	
1150	110	40.82		140 GAL	
1200	120	40.83	3	140 GPM	
Name of the last o					

		AND THE RESERVE OF THE PARTY OF			P-1-11-11-11-11-11-11-11-11-11-11-11-11-
-					

Step TESTING

DATE: 9/2/10

NAME: FR+JD Step 4: 1806 Pm WELL: EW-10

TIME &	DTW D. DOW	N FLOW RATE	TOTALIZER
1200:30 0.5	42-00		
1201 1	42.11	180 6Pm	
202 2	42.13	180 6Pm	
1203 3	4212	180 6 Pm	
1204 4	42.12	100 68m	
norr	42.12	116 GP4	
12066	42.13	180 GPM	
1207 7	42.12	180 684	
1208 8	42-12	180 6Pm	
1208 9	42.13	l86 684	
1210 10	42.13	180 GPn	
121/ 11	42.13	186 6Pm	
12/2/2	42.11	180 GPM	
1213 13	42.14	180 GPM	
1214 14	42.13	180 GPM	
1215 15	42.13	150 6pm	
1220 20	42.13	180 6pm	
1225 25	42-13	180 604	
1230 30	42.15	180 Gpm	
128535	42.18	18081~	
1240 40	42.20	180 6 Pm	
1245 45	42.18	(80 6 m	

TESTING

DATE: 9/2/10

NAME: FR+ JD Find Totalizer= 1/806pm > 1037912.4 WELL: EW-10

TIME	ET	DTW	D. DOWN	FLOW RATE	TOTALIZER
250	50	42.19		186 (Pm	
255	ST	42.19		180 6Pm	
1300	60	1/2.20		18 0 6 Pm	
13 10	70	12.21		180 68m	
1320	80	42.21		180 6 Pm	
1330	90	42.2		180 GPM	
1340	100	42.2	2	180 6pm	
1350		42.2	1	180 GAn	
1400		42.2		180 6 cm	
700	120	42.2		180 612	

Water Quality							
Time	1°C	Cond.	Do	PH	ORP	270	
134x	14.61	0.322	4.66	4.62	277.8	1.21	
13 50	14.57	0.322	4.13	4.60	283.7	1.23	
1355	14.55	0.322	3.85	4.60	288.4	1,03	
1406	14.58	0.312	3.76	4.60	291.0	1.04	

Drzngll Cond: ms/cm

8 of ?

Step TESTING OFF @ 1412

DATE: 9/2/10 NAME: FR+JD

WELL: EW-10 Recovery

TIME & DTW D. I	OOWN	FLOW RATE	TOTALIZER
1/2:30 0.5 37.20			
14/3 1 37.00			
1414 2 36.83	way was the same of the same		
1415 3 36-70			
1416 4 36.62			
1417 5 36.65	***************************************		
1418 6 36.58			
1419 7 36.60			
1420 8 36.57			
1/21 9 36.55			
142210 3657			
1422 11 3655			
1424 12 36.52			
1425 13 36.50			
1426 14 36.48			
1427 15 36.50			
1438 25 36.43			
11			
1458 45 36.38			

Appendix D Sustained Yield Test Water Level and Flow Rate Data

Pumping Test Field Data Sheet						Well No.	EW-15	
Site Old Roosevelt Field							36869.5	
Measured	Ву:					Start 1	03 0	
Distance t	o Pumping \	Well:			Ph	ase of Test:	Drawdo	n Recovery
Elevation	MP:							
Remarks:	¥						Page:	_/_of
				9				
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gp/n)		Remarks
9/7/10	0931	Static	34.67			782	9	
		0.5				, ,		
		1						
	1032	2	37.90			70		
		. 3		1		1		
ci.		4						
	1035	5	38.18			70		
	sē.	6	Ů,					
		7						
		8	*					W
		9						
	1040	10	38.28			70		
		11		3				
		12						
		13						
		14						
	1045	15	28.33			70		
	1550	20	8.39			70		
	1055	25	38.40			70		
	1100	30 _	38,45			70		
	1105	35 ू	38 46			70		
	1110	40	38,51			70		
	1115	45	38.50			70	ř	
	1120	50	38.51			70		
	1130	60	38.53			70		
	1140	70	38.54			70		
	1150		38.54			70	3	
	1200	90	38.56			70		Q.

U) IHE

W.			f						
7	Pumping ⁷	Test Field Da	ata Sheet		•			Well No.	EW-15
10	Site	Old Roose	velt Field						
	Measured	Ву:	1						
	Distance t	o Pumping \	Well:			Pha	ase of Test:	Drawdow	n Recovery
	Elevation I	MP:	34"						
	Remarks:	£						Page:	2_of
	Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	R	emarks
	917/10	1210	100	38.52			70		
		1220	110	38.53			70		
ZHOS.		1230	120	38.53			70		
		1300	150	38.55			70		
3HBS. 4HBS		/330	180	38.55			70		
		1400	210	38.54			70		
4tps		1430	240	38.52			70		
		1506	270	38.51			70		
544		1530	300	3851			70		
\sim		1600	330	38.49			70		
6472S.		1630	360	38.49			70		
		1700	390	38.49			70		
7 HPS		1730	420	38.49		300	70		
(2)		1800	450	38.22		*	70		
8 HB. 9 HBS.		1830	480	37.90		×	み		
_		1900	510	37.74			70		
9 4128.		1930	540	37.61			70		
		2000	570	37.58			70		
10 HOS-		2030	600	37.55			70		
11 HPS	94)	2130	660	3750			70		
12425.		2230	720	37.45			70		
		2330	780	37.4			70		
	9/8/10	()3°	840	37.89			70		
		130	900	37.53			70		
		280	960	37,34			70		
		330	1020	37.28			70		
18 HRS		430	1080	37.78			70		
		530		38 18			70		

	Pumping T	est Field Da	ata Sheet					Well No.	EW-15
0	Site	Old Roose	velt Field						
()	Measured	By:							
	Distance to	o Pumping V	Vell:			Pha	ase of Test:	Drawdow	Recovery
	Elevation N	MP:			•				
	Remarks:							Page:	3_of
							565		
	Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	F	Remarks
26 ARP.	9/8/10	630	1200	38,31			70		**
		0330	1260	38.35			70		
22+1D.		0830	1320	38.51			70		
22+10. 24 HCS. (134, 242) (134, 440) (134, 440)		0930	1380	38.60			70		
24 Hes.		1030	1440	38.62			70		
(1440 241)		1130	1500	38.64			70		
His.		1230	1560	38.64			70		
(1 my 4/40)		1330	1620	38.25			70		
28/25,		<i>H</i> 30	1680	38,50	Я		70		
		1530	1740	38.52			70		
		1630	1800	38.00			70	-	
		1730	1860	37.71			70		
		1830	1920	37.61			70		
		1930	1980	37,50			70		
		2630	2040	37,52			70		
		2130	2100	38,50 37.87			70		
		2230	2160	37.87			70		
	ala li	2330	2220	37.51			70		
	19/10	D 30	2280	37.40			10		
	1 1	130	2340	37.41			10		
		5230	2400	37,30			70		
		0330	2460	37,53			70		
		430	2520	36.02			70	-	
		530	2580	38.10		(f)	70	-	
		-	2640	39.26			70		
		0730	2700	38.49			7	0.0	
	-	0830	2760	38.59	7		70	pm	
	1	1 1 1 2 1	7000	1 / 1 4				1	

Pumping 1	Test Field Da	ata Sheet					Well No.	EW-15	
Site	Old Roose	velt Field							
Measured	Ву:								
Distance to	o Pumping V	Vell:		Ti.	Phase of Test: Drawdown Recovery				
Elevation N	MP:								
Remarks:							Page:	<u></u> 4_of	
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure	Pumping Rate	F	Remarks	
9/9/10	1030	2880	38,69		(in)	(gpm) Fo		ži –	
	11:30	2940	38,79			70			
	121.30	3000	38,73			70			
	13 30	3060	38.72			70		V	
	1430	3120	38.69			70			
	1530	3180	38.64			70			
	1630	3240	38,60			る			
	1730	3300	38.58			70			
	1830	3360	37.92			70			
	1930	3420	37,67			70		5	
	2030	3480	37,55			70			
	2130	3540	37.47			70			
	2230	3600	37.40	0)	*	72			
	2330	3660	37,70			70			
9/10/10		3720	38.10			70			
	130	3780 g	37.57			70			
	230	3840	37,36			70	-		
	330	3900	37,32			70			
	0430	3960	37,80	1		70			
	0530	4020	38,10			20			
	0630	4080	38.31			70			
	0730	4140	38.41			70			
	0830	4200	38.52		ě	70			
	0930	4260	38.66			70			
7	1030	4320	38 65			70			

Pumping	Test Field D	ata Sheet					Well No.	EW-1S
Site	Old Roose	velt Field						
Measured	-				•			
	o Pumping \	Well:			Pha	ase of Test:	Drawdow	n Recovery
Elevation		190				6 103		
Remarks:		V		- Alle Moteria			Page:	of
Date	Time	Elapsed	DTW .	Drawdown	Orifice	Pumping	Т г	Remarks
Date	THE SHE	Time (min)	No.	(ft)	Pressure (in)	Rate (gpm)		iemarks
9/10/10	38.61	Static	38.65		(1.17	J.SI7		
11-11-	1030:30	0.5	35.62					
	1031	1	35.44					
	1032	2	35.35					
	1033	. 3	35.32					
	1034	4	35.26					
	1035	5	35.16					
	1036	6	35.17					
	1037	7	35.17					
	1038	8	35.14					
	1035	9	35.12					
	1040	10	35.12					
	1041	11	35.11					
	1042	12	35.09					
7	10043	13	35.06					
	1044	14	35.05					
	1045	15	35.04					
	1050	20	34.96					
	1055	25	34.92					
28	1100	30	34.95		ā:			
	1105	35	34.90					
	11/0	40	34.90					
	1115	45	34.88					
	1120	50	34.88				i.	
	1130	60	34.90					
	11 40	70	34.90					
	1150	80 3	488				-	
	1200	90	34.86					

Pumping 1	Test Field D	ata Sheet		•		у.	Well No.	EW-15
Site	Old Roose	evelt Field						at
Measured	By:				-			
Distance t	o Pumping	Well:			- Pha	ase of Test:	Drawdov	wn Recovery
Elevation	MP:							
Remarks:					_		Page:	2 of
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)		Remarks
9/10/10	1210	100	34.85				FRO	oin 5m
	1220	110	34.87					
	1230	120	34.78					
	1300	150	34.56	34.75				w
	1330	180	33. 88					
	1400	210	34.35					
1433	1435R	240	34.58					
	1500	270	34.62					
	1530	300	34.68				d	
		330	ENC	OF 0	BSERI	IDTION	VS -	
		360		4				
		390						
		420						
		450						ă.
		480		•	111/			
		510		al	10 10			
		540		1				
		570	(
		600						
		660						×
		720						
		180						
		840						
		900						
		960						
		1020						
4		1080						
		1140						

Pumping T	est Field D	ata Sheet					Well No.	EW-15	
Site	Old Roose	evelt Field							
Measured					•				
Distance to	Pumping				_ Phase of Test: Drawdown Recovery				
Elevation M	ΛP:								
Remarks:					,		Page:	3 of	
						140			
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	F	Remarks	
		1200							
		1260							
		1320							
		1380							
		1440							
		1500				×.			
		1560							
		1620							
		1680							
		1740							
		1800				1			
		1860							
		1920							
		1980							
		2040							
		2100							
		2160							
		2220							
		2280							
		2340						1	
		2400							
		2460							
		2520							
		2580				11			
		2640							
		2700							
		2760							
		2820							

Pumping 7	Test Field D	ata Sheet				Well No.	EW-18	
Site	Old Roose	evelt Field						
Measured								
Distance t	o Pumping			¥	Pha	ase of Test:	Drawdown	Recovery
Elevation	MP:							
Remarks:							Page:	Flecovery U_of
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	Re	marks
		2880						3)
		2940						
		3000						
		3060						
		3120						
		3180						
		3240						
		3300						
		3360						
		3420						
		3480						
		3540						
		3600				6		
		3660						
		3720						
		3780						
		3840						
		3900						
		3960						
		4020						
		4080						
		4140						
		4200						
		4260						
		4320						

Pumping	Test Field D	ata Sheet			Well No. EW-1I					
Site	Old Roose	evelt Field			Jo	h low J	Hut= 332	36.9		
Measured	d By:				- Steet 1030					
Distance	to Pumping						: Drawdowh,	Recovery		
Elevation	MP:									
Remarks	:						Page:	of		
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	Rem	narks		
7/7/10	0947	Static	35.55		•					
		0.5								
		1								
	1032	2	37.5r			70				
		. 3				7				
		4				No.	T			
		5				7				
	1035	6	37.78	: 	∋e	777				
		7	15							
		8								
		9								
	1040	10	37.71			70				
		11								
		12								
		13								
		14								
	1045	15	37.87			70				
	1050	20	37.83			70				
	1055	25	37.80			70				
	1100	30	37.89			70				
	1105	35	37.91			70				
	1110	40	37.91			70				
	1118	45	37.93			30				
	1120		37.95							
	1130	60	37.97			₹ 20				
	1140	70	38.00			70				
	1150	80	38,00			70				
	1200	90	31.00			7				

Pumping 1	Test Field Da	ata Sheet		•			Well No.	EW-1I
Site	Old Roose	velt Field						
Measured	Ву:							
Distance to	o Pumping V	Vell:			Pha	n Recovery		
Elevation I	MP:	٠						
Remarks:			¥				Page:	2of
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	F	Remarks
9/7/10	1210	100	38.02			70		
	1220	110	38.00			70		
	1230	120	38.00			70		
	1300	150	38.01			70		
	1330	180	38.00			70		
	1400	210	37.99			70		
	1430	240	37.98			70		
	1500	270	37.97			70		
	1530	300	37.17			70		
	1600	330	37.90			70		
	1630	360	37.81	el.		70		
	1700	390	37-91			る		
	1730	420	37.90			70		
	1800	450	37.17			70		
	1830	480	36.65	•		70		
	1900	510	36.55			70		
	1930	540	36.47			70		
	2000	570	36.48			70		
	2030	600	36.48			70		
7	2136	660	36.46 36.30			70		
	2230	720	36.21			70		
	2330	780	36.3			70		
18/10 A.H	2930	840	36.81			70		
1 9181	130	900	36.27			70		
	230	960	36.1			70		
	330	1020	36			76	4	
	430	1080	3702	٠		70		
	530	1140	3448			70		

								EW-1T
Pumping 1	Test Field Da	ata Sheet					Well No.	7-0-1
Site	Old Roose	velt Field						
Measured	Ву:							
Distance to	o Pumping V	Well:			Pha	ase of Test	Drawdown	Recovery
Elevation N	MP:			•	2			
Remarks:					el e		Page:	3_of
				4 11 - 11 - 11 - 12		8		
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	Re	marks
9/8/10	630	1200	37.67			70		
	6730	1260	37.80			70		
	0830	1320	37.95			70		
	0930	1380	37.02		14	70		
	1030	1440	38.04			70	24 HRS	
	1/30	1500	38.05			70		
	1230	1560	38.06			70		
	1330	1620	37,61			70		
	1430	1680	37.95			70		
	1530	1740	37.94			70		
	1630	1800	36.95			70		
	1730	1860	36.58			70		
	1830	1920	36,43			70		
	1930	1980	36,30			70		
	2030	2040	36,68			70		
	2130	2100	37,42			70		
	2230	2160	36.67			70		
	2330	2220	36,22	_		70		
9/9/10	D 30	2280	36.20			70		
11	130	2340	36.10			70		
	0230	2400	36.05			70		
	430	2460	36,81			70		
, .	430	2520	37.36			70		
	500	2580	37,48			70		
	630	2640	37.71			70		
	0730	2700	37.85			70		
	0830	2760	37.94			69	JAD.	
	0936	2820	38.05			70		

Pumping 1	est Field Da	ata Sheet	100	-			Well No.	FW-1I	
Site	Old Roose	velt Field							
Measured	Ву:								
Distance to	o Pumping V	Vell:			Phase of Test: Drawdown Recovery				
Elevation I	MP:								
Remarks:							Page:	<u>4</u> _of	
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	Re	emarks	
9/9/10	1030	2880	38,11			70		,	
	1130	2940	38,15			70			
	1230	3000	38.17			70			
	1330	3060	38.18			70			
	1730	3120	38,17			70			
	1530	3180	38.10			70			
	1630	3240	38.05			20			
	1730	3300	37.91			70			
	1830	3360	36.80			70			
	1930	3420	36,46			20			
	2030	3480 ,) (70			
	2130	3540	36.20			70			
	2230	3600	36.14			70			
,	2330	3660	36,93 37 36			70			
9/10/10	030	3720	37 36	-		•		Lys.	
/ /	130	3780	3675			70			
	0230	3840	36.12			70			
	0330	3900	35,98			70			
	0430	3960	37.11			70			
	0530	4020	37.42			70			
	0630	4080	37.63			70			
	0730	4140	37.78			70			
	0830	4200	37.91			70			
	0930	4260	38.11			か		10tracion de la company	
	1030	4320	38.15			70			

		ļ							
Pumping 1	Гest	Field D	ata Sheet					Well No.	EW-1I
Site	Ole	Roose	velt Field						
Measured	Ву:								
Distance to	o Pu	mping \	Well:			Pha	ase of Test:	Drawdown	Recovery
Elevation N	MP:						off 6	1030	
Remarks:								Page:	of
Date	Т	Time	Elapsed	DTW	Drawdown	Orifice	Pumping	Re	marks
Date			Time (min)	(ft)	(ft)	Pressure (in)	Rate (gpm)	110	a.
9/10/10			Static	38.15					
17 /12	10	8:36	0.5	36.32					
	10	31	1	36.30					
	10	32	2	36.20					
	18	33	. 3	36.16					
	10	34	4	36.11					
	10	35	5	36.07					
	10	36	6	36.04					
	16	37	7	36.02					
	1	38	8	36.02					
	/	039	9	36.01					
	/	640	10	36.00					
	10	41	11	36.00			9		
	10	42	12	35.95					
	10	43	13	35.95					
		44	14	35.25					
	10	4	15	35.93					
	10	٥٥,	20	35.90					
	10	55	25	35.80					
	11	UB	30	35.82					
	11	05	35	35.81				9	
	11	10	40	35.80					
	11	15	. 45	35.79					
		20	50	35.77					
))	30	60	35.77					
	11	40		35.75					
		50	80	35.73					
		200		35.70					

		-							
Pumping	Test	Field D	ata Sheet					Well No.	EW-1I
Site	Old	Roose	velt Field						
Measured	By:					.			
Distance t	to Pu	mping \	Well:			- Pha	ase of Test:	Drawdown	Recovery
Elevation	MP:		*						
Remarks:								Page:	Recovery Zof_
Date		time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	Rer	marks
9/10/10	10	210	100	35.68		(11.7)	(92)		
	12	20	110	35.69					
	12	30	120	35.68					
	1	300	150	35.15					
	13	30	180	34,18					
	1	100	210	35,18					
1433	14	30定	240	35.46					
	1:	500	270	35.45					
	15	30	300	35.45					
			330						
			360		ž.				
			390						
			420						
			450						
			480						
			510						
			540						
			570						
			600						
			660						
			720						
			780						
r 548			840						
			900						
			960						
			1020						
			1080						
			1140						

Pumping '	Test Field D	ata Sheet				Well No.	EW-10 1037,914.		
Site	Old Roose	evelt Field				女かして	r stut=	1037.914	
Measured					-	Stant	- 1030	1 = 1 11	
	to Pumping	Well:							
Elevation	PI 529	3						•	
Remarks:		2					Page:	_/_of	
				t:					
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	Re	emarks	
9/7/10	0941	Static	36.30		(11)	(95111)			
		0.5							
		1							
		2							
	1033	. 3	39.90		E# :	10			
		4							
		5	V			As a little of the state of the			
	10.36	6	39.97			110			
		7							
_	(I)	8							
	Harris	9							
	1040	10	40.07			110			
		11							
		12							
		13							
		14							
	1045	15	40.15			110	12.		
	1050	20	40.16			110			
	1055	25	4021			110			
	1100	30	40.00			110			
	1105	35	40.25			110			
	110	40	40.26			110			
	1115	45	40,27			110			
	1120	50	40.28			110			
_	1130	60	40.27			110	1		
	1140	70	40.27			110			
	1150	80	40,30			110			
	1200	00	40.36			110			

Pumping 7	Test Field Da	ata Sheet		•			Well No.	FW-10
Site	Old Roose	velt Field						
Measured	By:							
Distance t	o Pumping V	Vell:			Pha	ase of Test:	(Drawdown)	Recovery
Elevation	MP:							
Remarks:							Page:	a_of
Date	Time	Elapsed	DTW	Drawdown	Orifice	Pumping	Rei	marks
TR.		Time (min)	(ft)	(ft)	Pressure (in)	Rate (gpm)		
1210	1210	100	40.35		(11.7)	110		
9/7/10	1220	110	40.32			110		
	1230	120	40.32			110		
	1300	150	40.34			110		
	1330	180	40.35			110		
	1400	210	40.35			110		
	1430	240	40.35			110		
	1500	270	40.33			110		
	1530	300	40.33			10		
	1600	330	40.28			110	1	9
	1630	360	40.22			110		
	1700	390	40.29			110		
	1730	420	40.25			110		
	1800	450	39.27			110		
	1830	480	38-89			110		
	1900	510	38.60			110		
	1930	540 <	38,53			110		
	2000	570	38.46			110		
	2030	600	38,48			110		
	2/30	660	38,36			110		
	2230	720	38.3			110		
	2330	780	39.6			110		
7/8/10	030	840	38.87			110		
,	130	900	38.3			110		
	230	960	38.20			110		
	330	1020	38.1			110		
	430	1080	3951			110		
	538	1140	37.85			110		

		74							
Pumping	Test Field D	ata Sheet			٠		Well No.	Ew-10	
Site	Old Roose	velt Field							
Measured	Ву:				_				
Distance t	o Pumping \	Well:			Phase of Test Drawdown Recovery				
Elevation	MP:			•					
Remarks:							Page:	<u>3</u> _of	
	,								
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	R€	emarks	
9/8/10	630	1200	40,30		(11)	110			
	6730	1260	40.20			110			
	0830	1320	40.30			110			
	0930	1380	40-32		¥	110			
	1030	1440	40.37			110	24 45		
	1130	1500	40.39			110			
	1230	1560	40.41			110			
	1330	1620	39.92			110			
	1430	1680	40.30			110			
	1530	1740	40.30			110		-	
1	1630	1800	3895			110			
	1730	1860	38.65			110			
	1830	1920	38.41		И	110			
	1931	1980	38,38			110			
	2031	2040	38,98			110			
	2131	2100	39,75			110			
¥.	2230	2160	38.65			110			
	2330	2220 .	38.34			110			
9/9/10	D30	2280	38.27			110			
	130	2340	38.16			110			
	0230	2400	38,14			110			
	0330	2460	39.15			110			
	430	2520	39.63			100			
7	531	2580	38,85			110			
	631	2640	40.11			110			
	0730	2700	40.21			110			
	0630	2760	40.35			110	an		
	0130	2820	40.41			110			

Pumping	Test Field Da	ata Sheet					Well No.	Ew-10
Site	Old Roose	velt Field			-			
Measured	I Ву:							
Distance t	to Pumping V	Vell:		1	Pha	ase of Test:	Drawdown	Recovery
Elevation	MP:	_						
Remarks:							Page:	<u></u> \$\text{of}
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	Re	emarks
9/9/10	1030	2880	40.57			110		¥
	1130	2940	40.60			110		
	1230	3000	7405	3		110		
	1330	3060	40.54			110		
	1430	3120	40.52			110		
	1530	3180	40.44			110		
	1630	3240	40.35			110		
	1780	3300	40.11			110		
	1830	3360	38.90			110		
	1930	3420	38,56	9		110		
	2030	3480 <	38.38			110		
	2130	3540	38.28			110		
	2230	3600	39.22			110		
,	2330	3660	39,30			110		
9/10/10		3720	39.65			110		
7/	130	3780	38,33			110		
	0230	3840	39.15			110		
	0330	3900	38,11			110		
	0430	3960	39,45			110		
	0530	4020	39,79			110		
	0630	4080	39.95			110		
	0730	4140	40.12			110		
	0880	4200	40.27			110		
	०१३०	4260	40.48			110		
	1030	4320	40.51					

Elevation MP: Remarks: Date Time Elapsed DTW Drawdown Orifice Pumping Rate (gpm)				2						
Distance to Pumping Well: Phase of Test: Drawdown Peace of Test: Peace of Test: Drawdown Peace of Test:	Pumping	g Tes	t Field D	ata Sheet					Well No.	EW-
Distance to Pumping Well:	Site	<u>OI</u>	Roose	velt Field						
Elevation MP: Remarks: Date Time Elapsed DTW Drawdown Orifice Remarks Remarks	Measure	d By:					26			
Date Time Elapsed DTW Drawdown Orifice Gpm) Remarks	Distance	to P	umping \	Well:			Ph	ase of Test:	Drawdow	n Recov
Date Time Elapsed DTW Drawdown Orifice Remarks	Elevation	MP:	e b	4.			. 0.	ff@ 10	330	,
Time (min) (ft) (ft) Pressure (in) (gpm) 1	Remarks	s:	-							of
Static W. St	Date		Time		725 (3) 5-7	The state of the s	Pressure	Rate	F	Remarks
10 3 1 3 7 0 8 3 6 3 7 7 1 7 1 3 7 0 8 1 1 3 7 0 8 1 1 3 7 0 8 1 1 3 7 0 8 1 1 3 7 0 8 1 1 1 3 7 0 8 1 1 1 3 7 0 8 1 1 1 1 3 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	9/10/10	2 -		Static	40.51	- 0				
1	111		30:30			37.15				
10 3 2 37.0 2 37.0 2 2 37.0 2 2 37.0 2		10	3/							
10 33 3 36 9 8 10 34 4 36 9 9 10 36 8 8 8 36 8 8 8 36 8 8 8 36 8 8 8 8 8 8 8 8 8		_								
10 34 4 36 94 10 36 6 36 88 10 37 7 36 88 10 37 8 36 86 10 37 8 36 85 10 37 9 36 85 11 36 77 12 36 77 13 36 77 14 36 77 15 36 36 16 36 36 17 18 36 58 18 18 36 58 18 18 36 58 18 18 36 58 18 18 36 58 18 18 36 58 18 18 36 58 18 18 36 58 18 18 36 58 18 18 58 18 18 58 18 18 58 58 58 58 58 58 58					36.98					
10 3 5 36.90										
10 36 6 36.8									4	
10 37 7 36.88 36.86 10 37 9 36.85 10 37 9 36.85 10 37 36.85 10 37 36.85 10 37 36.85 10 37 37 37 37 37 37 37 3							*			
10 3 8 8 36.86 10 3 6.85 10 3 6.85 10 3 6.85 10 3 6.85 10 3 6.85 10 3 6.85 10 3 6.85 10 4 6 3 6.85 10 4 6 3 6.85 10 4 6 3 6.85 10 4 6 3 6.85 10 4 6 3 6.85 10 4 6 3 6.85 10 4 6 3 6.85 10 4 6 3 6.85 10 4 6 3 6.85 10 4 6 3 6.85 10 4 6 3 6.85 10 4 6 3 6.85 10 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6										
10 3 9 36.85 10 36.)			The second secon						
10 36.83 10 41 11 36.77 10 42 12 36.77 10 43 13 36.75 10 44 14 36.74 15 76.73 10 50 20 36.68 10 55 25 36.65 11 06 35 36.65 11 15 45 36.58 11 20 50 36.61 11 30 60 36.60 11 40 70 36.58 11 50 80 36.58		_								
10 41 11 36.77 10 42 12 36.77 10 43 13 36.75 10 44 14 36.74 10 50 20 36.68 10 55 25 36.65 11 00 30 36.65 11 15 45 36.58 11 20 50 36.61 11 30 60 36.60 11 40 70 36.58 11 50 80 36.58					Statistics of the state of the					
10 42 12 36.77 10 43 13 36.75 10 44 14 36.74 10 50 20 36.68 10 55 25 36.65 11 00 30 36.65 11 10 40 36.61 11 15 45 36.58 11 20 50 36.61 11 30 60 36.60 11 40 70 36.58 11 50 80 36.58										
10 43 13 36.75 10 44 14 36.74 15 76.73 1850 20 36.68 1055 25 36.65 1100 30 36.65 1101 40 36.61 1115 45 36.58 1120 50 36.61 1130 60 36.58 1150 70 36.58 1150 70 36.58										
10 44 14 36.74 10 50 20 36.68 10 55 25 36.65 11 00 30 36.65 11 10 40 36.61 11 11 45 36.58 11 12 0 50 36.61 11 30 60 36.58 11 50 80 36.58		_							~~~	
15 76.73 1650 20 36.68 1655 25 36.65 1700 30 36.65 1700 40 36.61 1715 45 36.58 1720 50 36.61 1730 60 36.58 1740 70 36.58		_						*		
1050 20 36.68		_								
1/055 25 36.65 1/00 30 36.65 1/10 40 36.61 1/15 45 36.58 1/120 50 36.61 1/130 60 36.60 1/140 70 36.58 1/150 80 36.58				20	36 68					
1/00 30 36.67 1/07 35 36.63 1/10 40 36.61 1/15 45 36.58 1/20 50 36.61 1/30 60 36.60 1/40 70 36.58 1/50 80 36.58	-			25	36.65					
1/10 35 36.63 1/10 40 36.61 1/15 45 36.58 1/20 50 36.61 1/30 60 36.60 1/40 70 36.58 1/50 80 36.58				20	36.65					
11/0 40 36.61 11/15 45 36.58 11/20 50 36.61 1/30 60 36.60 1/40 70 36.58 1/50 80 36.58		-								
1/15 45 36.58 1/20 50 36.61 1/30 60 36.60 1/40 70 36.58 1/50 80 36.58		1								
11 20 50 36.61 11 30 60 36.60 11 40 70 36.58 11 50 80 36.58		1 .1			36.58					
1/30 60 36.60 1/40 70 36.58 1/50 80 36.58									-	
1/40 70 36.58		1		50	3/ 60					
1/50 80 36.58		1/		70	36 < 8					
10/ -21		1								
1200 90 36.57					36.57					

Pumping	Test	Field D	ata Sheet		,			Well No	EW-10
l' dinping	1000		ata oneet					VV CII 140.	
Site	Old	Roose	evelt Field						
Measured	Ву:								
Distance t	to Pu	mping '		-		. Pha	ase of Test:	Drawdown	Recovery
Elevation	MP:								_
Remarks:								Page:	之_of
Date		time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	Re	marks
9/10/10	10	10	100	36.57					
	12	20	110	36.58					
	12	36	120	36.55					
	13	300	150	35.54			*		
	_	30	180	35,05					
	_	00	210	36.02					
1433	_	1305	240	36.10					
	+	00	270	36.31					
	15	30	300	36,28					
			330						
			360						
			390						
			420						
			450						
			480		*				
			510						
			540						
			570						
			600						
			660						
			720						
· ·			780						
			840						
			900						
V			960						
			1020						
1			1080						-
			1140						

										_
Pumping '	Test Field Da	ata Sheet						Well No.	GWP-10	
Site	Old Roose	velt Field	1							
Measured	By: Fox	IN N.Da	16HAMY	Thee sei	nah					
Distance t	o Pumping V	Well:	/	,,,	Ph	ase of	Test:	Drawdow	n Recovery	
Elevation	MP:									
Remarks:						١	١	Page:		
				29		,	V .			
Date	Time	Elapsed Time (min)	DŤW (ft)	Drawdown (ft)	Orifice Pressure	Pum Ra		B	lemarks	10/10
ļ.,,	pople	, , , ,	1.7	(,	(in)	(gp			an	9/8/10
9/7/10	101/01	Static	101.6	7		9	- 6.1	Mungo	on.	
"//	1030.5	0.5	101.62			(1)	16	Test St	int at 103	
9/7/10	1031	1	101.62			V	0)	Peadw	35 by Don	10 Hantly
	1032	2	101.67					1		
	1033	. 3	101.67		-					
	1034	4	101.73			8				
	1035	5	101.62			13				
	1036	6	101.64			2				
	1037	7	101.64			7				
	1038	8	101.64			10				
	1039	9	101.65			1				
	1040	10	101.04			2				
^	_	11				2				
		12			TP.	B			ř	
	1043	13	101.76			1				*
	1044	14	101.78							
	1046	15	101.8	2.						
	1050	20	101.66			e	0			
		25				2	Selection			
	1100	30	101.71			O. K	,	9	An; Motarna	12/11
	1105	35	101.75			4	2_	Hums-	ottou !	7
	1110	40	101.74			1		HOW	Motorno	Lundins
	1115	45	101.74				10		, ,	
	1120	50	101.8			2 V	018/2			1
	1130	60	101.6			1 4	-	Mikesh	not starter	ecording
	1140	70	10/80					1 1 2		
	1150	80	101.44							
V	1200	90	101. PH							7

Pumping ⁻	Test Field Da	ata Sheet		•			Well No. BUS. 10
Site	Old Roose	velt Field					
		see per	narlu)			
1	o Pumping V				Pha	ase of Test	Drawdown Recovery
Elevation I	MP:						
Remarks:							Page: 2 of 5
Date	Time	Elapsed	DTW	Drawdown	Orifice	Pumping	Remarks
		Time (min)		(ft)	Pressure (in)	Rate (gpm)	riomano
9/7/10	1210	100	101.94		X-7	0	
1	1720	110	10191				
	1230	120	101.97				
		150	101				
		180					
	1476	210					
2	1430	240	101.87			Ø	
	J-IC	270					No.
		300					140
		330					Ch.
	1625	360	101.81	,			off Pump ON.
		390					2019
		420					8,01
		450					off
	1855	480.	40.19	*		Ø	of Pump of
		510					
		540					00%
		570					Gal
	7030	600	39.56			Ø	- OFF GUND Off
	14	660					1 /1
		720	0.01				
		780	M 9/51	0			Pump Majey
J	2230	720	39.48			6	Nump Major
		-9007	M 4/9/	d			
		960	יויוען				
2/		4020		29/0/10			Pump gne/2/1.
9/8/10	QQ 33	1080	40.33	The state of the s		8	OFF
, ,		1140	M9/2	V i			

Pumping ¹	Test Field D	ata Sheet					Well No.	B/ds 10
Site	Old Roose	velt Field					6	wp-10
Measured	By:	ple 1	emal	4	•			
	o Pumping \	,			- Pha	ase of Test:	Drawdow	n Recovery
Elevation	MP:				-			
Remarks:	-				•	Se Se	Page:	3.5
Date	Time	Elapsed	DTW	Drawdown	Orifice	Pumping	- F	Remarks
		Time (min)	(ft)	(ft)	Pressure (in)	Rate (gpm)		
9/9/10		1200	0.010	111	\.\.\/	(SP-V)		
11-11		1260	A) 9/8				Pamp	
	0230	964320	39.45			A	1 Off	
	000	-1380			16/1	7	101.	
		1440						
		4500	1080	an9/2	110			100
	0430	1560	101.46	1/		7	DEP	Pump ON
	0,700	1620				7	an ?	18/10
		1680	m9/8	10			7101/	7/
		1740	12007	m 9/8	10			
	0630	1800	101.65	//		Ø	pff	Pumoon.
	0826	1860-	101.71			Ø	St.	Purson.
		-1920 . L	1320	Dang,	10/10		an	9/8/10
4	* +	1980		/	/			
		2040		4	1			
		2100						
		2160						
	4	2220			1 /2			
		2280		a	10/10			
		2340		W H	7			
		2400		PI				
		2460						
		2520				7		
		2580						
		2640			*			
		2700						
		2760						
		2820						



Pumping	Test Field D	ata Sheet					Well No.	WP-10
Site	Old Roose	velt Field						
Measured	d By:	see sei	mark)				
	to Pumping \				Pha	ase of Test:	(Drawdown)	Recovery
Elevation	MP:			•				1 —
Remarks:						×	Page:	4 of 5
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	Ren	narks
		-1200°						
		-1260		6	209/81	10		
		71320		Í	" " /			
		1380						
9/8/10	1038	- 1440	101.28				Pump 0	NIM
		1500						
11	1235	1560	101.87				Pums O	NJM.
	1	1620						-
	1424	1680	101.82				Pup on	Fe
	1/21	1740					0 0	0 -1
	1626	1800	40,41				Pupo of	+ dre
	(224)	1860	24/0				0 (1	90
	1824	1920	34,69				Ryp. St	FR
	. 7 (1980	1 00				0 0	
	2026	2040	100.98				FUMP O.	NZK
	2229	2100	29 17				TUMP OI	- [2]1/
	224	2160	39,47				10M1 01	1 811
a la l.	0025	2220	78 -5				Pu P	EF ZV
1/9/10	0025	2280	38,05				10341 01	FF EK
11	0225	2340	29 25				PumPni	- P1/
• (0663	2400	39,35				PUMP OF	ren
((0424	2460	101,53				Pump or	1 8 11/
S21 ()	729	2520	101,53				10/41 01	
-	0625	2580 2640	10/73				PUMPO	11311
	6-3	2700	10/11/2			: •	10700	
	0825	2760	101.85				Pupor	TR
	,	2820	1-00				700	
		2020		L				

	1
	/
1	/

								•
	Pumping 1	Γest Field Da	ata Sheet			X		Well No. GWP-10
Ó	Site	Old Roose						
	Measured	Ву:	ALL PO	mah	3			
	Distance to	o Pumping V			4	Pha	ase of Test:	Drawdown Recovery
	Elevation N	MP:						
	Remarks:	SOLIN	STERRI	1 #44	102			Page: 5_of_5
	Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	Remarks
,	9/9/16	1025	2880	161.92		()	(90)	ON FR
			2940					
1		1225	3000	102.00				For In
			3060				-	
		1425	3120	102.00				Ry on Tre
			3180					
		1627	3240	101.89				Pupor FR
			3300					
		1824	3360	40.13				Ryst TR
· .			3420					
		2025	3480	39,60				RUMP OFF EK
			3540					\
		2226	3600	39,36				Punt of Cl
			3660					
	9/10/10	0024	3720	101,58				PUMPON ER
		\$20	3780					
		0225	3840	39.14				PUMP OFF CH
			3900	,				
		0425	3960	101.42				TUMP ON ER
	-	00-	4020					
		0624	4080	10/069				funt on Elk
			4140					,
		6826	4200	101.88				Rys on FR
			4260					
		1010	4320	101.99				Ryon IR.

Pumping	Test Field D	ata Sheet					Well No.	GWP-10
Site	Old Roose	velt Field						
Measured		INDOUG	HENTL	/	-			
Distance	to Pumping \			Æ	Pha	ase of Test:	Drawdow	vn Recovery
Elevation	MP:							9
Remarks:		* 8	7		5		Page:	vn <u>Recove</u> ry Lot
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	f	Remarks
9/10/11	1030	Static	7				Stop	TE 51.
//	1030.5	0.5					,	
	1031	- 1						
	1032	2						
	1033	. 3	1				GWP.	-10
	1034	4	101.85				Pump	ON.
	1038	5	101.84				DROON	KIBERTY
	1036	6	101.89				UNI	you no
	1037	7	101.9					
	1638	8	_				×	
	1039	9	101.91					
	1040	10						
	1041	11						
	1042	12	101.88		1	- Th	į.	
	1043	13	101.28					
	1044	14	101.85					
	1045	15	101.8					
	1050	20	101,94					
	1055	25	101.95					
	1100	30	101.75					
	1105	35	101.0					
	1110	40	101.23					
	1115	45	101.81					
	1120	50	101.82					
	1130	60	101.76				-	
	140	70	101.69					
	1150	80	101.6+					1
1	1200	00	101.75		1			1

. 1	Pumping T	est Field Da	ata Shoot					Wall No.	SWD-10	1
	Pumping 1	est Field Da	ala Sheel					well No. Z	100 10	
	Site	Old Roose	velt Field							
	Measured	Ву:	INDOU	GHENTY					MA:	
	Distance to	Pumping V	Well:	/		Pha	ase of Test:	Drawdown	Recovery	
	Elevation N	MP:							Recovery 2 of 2	
	Remarks:							Page:	2_{of}	
	Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)		marks	
	9/10/10	1210	100	101.75				5WP-1	OON.	
90	7,/	12236	110	101.76				(AB)		
1/0/2 Al		12303	120	101.69			T.	M	4	
2/10/2		7	150							
			180							
		/_	210							
		1422	240	101.54				6WP-10 1	N FR	
			270	1						
0		6	300	1						
	1	1700	330	101.67				Pump. O.	N. 400	
	9/10/10	1705	360		046			ENDOF	N. GAD READIN	Vas
	7-7-		390						7	
			420					/		
			450							
			480		•					
			510							
			540			1,0				
			570		9/	9				
			600		MY					
	d .		660	(
	V		720							
			780							
			840							
			900							
			960							
			1020							
			1080							
			1140							

/

11 58

101.67

Pumping T	est Field D							GWP-11
Site	Old Roose	velt Field		ex/pel (_	olas	T
Measured	By:	Allan	Hunte	x/see (omarlis	562	4005	03
Distance to	o Pumping \	Well:		// .	Ph	ase of Test:	Drawdow	n Recover
Elevation N	MP:				-			, (
Remarks:					. X >		Page:	_/_of_2/
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure	Pumping Rate	ſ	Remarks
9-7-10	10:12	Static	76.2		(in)	(gpm) 1210		
	10:30	0.5					Start	test
9-7-10	10:32	219	76.29	Ý		1209		4
		2						
9-7-1t	10:34	48	76.31		8	1208		
9-7-10	10:38	84	76.3	*.		1208		
9-7-10	10:43	13 \$	76.37	Λ		1207		
9-7-10	10:49	198:	76.37			1207		
9-7-10	10:56	26 x M				1207		
9-7-15	10:57	278	764		ake	1207		
		9 \$	764	A.H. 917	/10			
9-7-10	11:00	30 +0 1	76.4		20	1207		
	, , , , ,	11.	7642	A.H.9/7	10			
9-7-10	11.02	72-120	7642		•	1209		
	7,000	13	10.11		•			ď.
		14						
9-7-10	11:07	37 15	76.47			1207		
9-7-10	11:02	42 20	76.46			1206		
9-7-0		47280				1207		
9-300			76.45			1208		
9-7-10		5735	76.46			1208		
11/2-1-1-1	11:32	. \1	76.54			1208		
	1	<i>A</i> 45			_	$\overline{}$		
//		50						
/ -		60						- V
9/2/10	11:40	70	76.53		1			

Pumping 1	est Field Da	ata Sheet					Well No.	6WP-11
Site	Old Roose	velt Field						
Measured	By:	see ren	narks	9.	•			
	o Pumping V				Ph	ase of Test:	Drawdow	Recovery
Elevation N	MP:			12				4
Remarks:							Page:	2 of 4
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	Re	emarks
917/6	12:10	100	76.51			1209	A. Kun	ter
1	12:20	110	76.54			1208	/	
	12:30	120	76.54			1208	e e	
		150	76874	Ź				
		180				*		
	¥ ÷	210						
-	1430	240	76.52			1208		
180	17 (4	270				1 , 4		
		300						
Make		330						
	128	360	76.43	54	W2.	1268		
Ch		390						
		420						
		450						
	1830	480	73.30			1231		
		510						
		540						
	. ,	570						
	2032	600	72.83			1233		
		* 660						
V	232	- 720	72.68			1235	-	
		780	*					
9/8/10	037	840	73.26			1231		
7,7,		900				10 .		
	234	960	724			1236	160	*
11 2		1020						
Was	438	1080	75.65	-		1215		
Y		1140						

6WP-11 Pumping Test Field Data Sheet Well No. Site Old Roosevelt Field Dei semans Measured By: Phase of Test: Drawdown Recovery Distance to Pumping Well: Elevation MP: 3 of 4 Page: Remarks: Elapsed DTW Date Time Drawdown Orifice Pumping Remarks Time (min) (ft) (ft) Pressure Rate (gpm) (in) 1210 1200 1260 F. Robinsm. 76.44 1210 0830 1320 1380 1044 1206. 7652 1440 1500 2000. 1206 1237 76.53 1560 1620 1428 76.42 JL 1209 1680 1740 73.41 FR 1630 1230 1800 1860 72.83 FR 1828 1233 1920 1980 75 28 ME 2040 2100 232 2160 2220 2280 2340 2400 2460 2520 2580 2640 2700 76.45 0829 1210 2760 0829 2820

Pum	ping 1	est Field Da	ata Sheet					Well No.	6wp-11
Site		Old Roose	velt Field						
	sured		see cev	narles					
		o Pumping V			16	Pha	ase of Test:	Drawdow	Recovery
		MP:							,
10000	arks:	227 22				i		Page:	4_of_4
		\ <u>\</u>						. ago.	—·—
Da	ate	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	F	Remarks
9/0	1/10	1028	2880	76.66		\ \frac{1}{2}	1208	FR	,
i			2940						
		1228	3000	76.78			1208	IL	
		V	3060						
		1428	3120	76.65			1207	FR	
		, ,	3180						
		1630	3240	76.51			1202	IR	
			3300						
		1828	3360	73.29			1233	FR	
			3420						
		2032	3480	72.80			1234	MR	-
			3540						
		2)33	3600	7263			1236	ME	
,	V		3660						
9/10	1/10	1731	3720	25.90			1214	IN	
	/		3780	(_		0017	,	
		230	3840	7265			1236	ME	
			3900	(-				, ,	
	V	431	3960	75.65			1216	118	
			4020	7-3				7 (7	
		(30	4080	76.03			1207	MR	_
3.		Į.	4140				,		
		0829	4200	76.49			1210	TR	
	/		4260						
	V	D 13	4320	76.56			1208	FR	

x

Pumping	Test Field Da	ata Sheet					Well No.	GWP-11
Site	Old Roose	velt Field						
Measured	By:	Allan 1	Hunter		-			
Distance t	o Pumping \				Ph	ase of Test:	Drawdow	
Elevation	MP:							
Remarks:					6		Page:	
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure (in)	Pumping Rate (gpm)	F	Remarks
9/10/10		Static	7				Stop	, Test
//		0.5						
		1						
		2	dame.				obser	vations
	1033	. 3	76:48				by A.	vations Hunter
		4					1	
	1035	5	76.52					
	1036	6	76,52					
	1037	7	76.5			1209		
		8						
	1039	9	76.51			1205		
	1040	10	76,55					
	1041	11	76,55			1207		x
		12			•			
	1043	13	76.52		1	1207		
	1044	14	76.46			1206		
	1045	15	16.44			1207		
	1050	20	76,47	,				
A.H.	1055	25	16.48	9.H.		1207		
9/10	1000	30	76,42	9/0		1209		
11/0/	1005	35	76,42			1207		
A.H.	1050	40	1547	A.H.		1207		
9/10	1115	45	10:11	2/10		1207		
	1120	50	76.4			1207		
	1130	60	76,39			1207		
	1140	70	76.35			1205		
1	1150	80	76.35			1205		
Ų	1200	90	76.36			1207	W	

r.

Pumping 1	Test Field D	ata Sheet		•			Well No	GWP-11
i umping	CSC FICIG D	ala Oncei					Well No.	CW /
Site	Old Roose	velt Field	11 1	/		1.		
Measured	Ву:	Allan	Hunte	v/Ale	1eman	10		
	o Pumping \			/ ′			Drawdow	n Recovery
Elevation I	MP:							2 of 2
Remarks:							Page:	Δ of Δ
	T =-	T =:		r		T-2		
Date	Time	Elapsed Time (min)	DTW (ft)	Drawdown (ft)	Orifice Pressure	Pumping Rate		Remarks
		` '			(in)	(gpm)	1	
	1210	100	76.34			1207	A.H.	
	1220	110	76.29			1207	A.H.	
	1230	120	76.36			1208	A.H.	
		150						
		180						
	h.,	210						
	1425	240	76.02			1212	F.R.	
		270						
		300						
	1712	330	74.02			1225	A.H.	
		360		٠			End	of
		390					Obser	vations
		420						
		450						
		480		•				
		510						
·		540		*				
		570		÷	1	1001	7	
		600		1 IV	ali	0120		
1		660		BAI	9//1			
	K	720						
		780						
		840						
		900						
		960				1		
		1020						
		1080						
		1140						

Appendix E
Weather Data

Lat: N 40 ° 45 ' 3 " (40.751 °) Lon: W 73 ° 36 ' 47 " (-73.613 °)

Elevation (ft): 115 MADIS ID: AT063

Hardware: Davis Vantage Pro

Weather Station Software: WeatherDisplay:10.37

KNYCARLE1

Carle Place, Carle Place, NY

																		Gust	D.T. T.
2010		Temp. (°F)			Dew Point (°F	5)		Humidity (%	١	Barometric	Pressure, Da ea Level (in F			Visibility (mi)		Wind	(mph)	Speed (mph)	Daily Total Precipitation (inches)
August	high	avg	low	high	avg	low	high	avg avg	low	high	avq	low	high	avg	low	high	avg	high	sum
8/1/2010	79	72	65	62	58	52	83	63	41	30.06	30.00	29.93	-	avy -	- 10W	7	2	14	0
8/2/2010	81	75	68	64	61	54	87	64	43	30.11	30.08	30.05	-		-	8	3	18	0
8/3/2010	81	77	72	65	63	60	73	62	57	30.09	30.07	30.05	-	-	-	6	4	16	0
8/4/2010	87	82	76	73	69	64	87	67	57	30.05	29.88	29.7	-	-	-	9	5	18	0
8/5/2010	93	84	75	74	70	63	93	65	37	29.7	29.62	29.53	-	_	-	14	3	26	0
8/6/2010	87	81	66	70	59	44	83	51	25	29.79	29.68	29.56	-	-	-	8	2	18	0
8/7/2010	82	72	59	69	56	50	84	61	35	29.95	29.88	29.8	-	-	-	9	2	17	0
8/8/2010	86	77	69	73	67	57	92	73	38	30.01	29.98	29.94	-	-	-	10	3	20	0
8/9/2010	89	80	72	73	68	59	96	70	44	29.98	29.93	29.88	-	-	-	9	3	20	0
8/10/2010	90	81	74	72	67	62	86	62	43	29.89	29.84	29.78	-	-	-	6	1	14	0.01
8/11/2010	89	78	72	72	68	62	95	73	41	29.83	29.80	29.76	-	-	-	7	2	13	0
8/12/2010	76	73	70	69	65	61	94	77	61	29.92	29.87	29.82	-	-	-	6	1	12	0.03
8/13/2010	78	72	67	62	57	51	85	60	40	30.05	29.99	29.92	-	-	-	8	2	16	0
8/14/2010	76	68	56	61	55	48	93	65	41	30.12	30.09	30.06	-	-	-	8	2	14	0
8/15/2010	76	71	62	69	63	60	96	77	58	30.06	30.01	29.95	-	-	-	9	3	20	0.06
8/16/2010	83	76	69	74	71	63	96	86	71	29.95	29.91	29.86	-	-	-	7	2	14	0.05
8/17/2010	90	80	72	74	68	58	99	70	36	29.97	29.93	29.89	-	-	-	7	1	116	0
8/18/2010	77	76	72	66	59	55	76	57	47	30.04	29.98	29.92	-	-	-	2	1	6	0
8/19/2010	87	76	64	68	61	54	99	64	34	29.92	29.85	29.78	-	-	-	10	2	14	0
8/20/2010	88	78	66	68	60	44	96	59	23	29.95	29.88	29.8	-	-	-	6	2	14	0
8/21/2010	80	74	62	63	58	48	80	58	45	30.02	29.99	29.95	-	-	-	7	2	13	0
8/22/2010	79	75	70	75	72	69	100	92	78	29.97	29.85	29.72	-	-	-	14	4	24	2.7
8/23/2010	72	69	67	72	67	60	100	93	76	29.9	29.81	29.71	-	-	-	9	5	20	0.05
8/24/2010	68	66	62	63	60	58	95	82	74	29.96	29.91	29.86	-	-	-	8	5	21	0.11
8/25/2010	67	66	63	65	64	62	99	95	94	29.86	29.82	29.78	-	-	-	7	2	16	0.22
8/26/2010	81	73	65	65	59	50	91	64	34	30	29.92	29.83	-	-	-	9	2	18	0
8/27/2010	78	68	56	54	51	46	92	59	35	30.09	30.05	30	-	-	-	8	2	14	0
8/28/2010	78	68	54	62	54	51	95	64	39	30.18	30.14	30.09	-	-	-	7	2	12	0
8/29/2010	93	76	58	63	58	50	96	60	24	30.17	30.11	30.05	-	-	-	7	1	10	0
8/30/2010	90	77	61	64	59	53	95	59	29	30.17	30.12	30.07	-	-	-	7	2	14	0
8/31/2010	94	81	66	67	63	59	90	59	32	30.11	30.04	29.97	-	-	-	7	1	13	0
9/1/2010	93	82	70	69	65	55	91	60	29	30.02	29.97	29.91	-	-	-	7	1	12	0
9/2/2010	89	81	74	70	66	61	77	62	45	29.96	29.92	29.88	-	-	-	9	2	22	0
9/3/2010	82 79	77 74	72 66	74 68	70 50	64 40	93 80	79 44	65 28	29.88 29.8	29.65 29.61	29.42 29.42	-	-	-	7 18	2 6	17 28	0
9/4/2010	79	66	54	50	43	38	78	44	28			29.42	-	-	-	18		28	
9/5/2010	76	66	54	61	50 50	40	78 94	61	29	30.05 30.2	29.93 30.13	30.05	-	-	-	9	3	16	0
9/6/2010 9/7/2010	82	74	66	68	64	58	83	72	53	30.2	30.13	29.9	-	-	-	12	4	21	0
9/8/2010	89	74	65	69	57	40	86	56	19	29.91	29.75	29.59	-	-	-	9	4	24	0.06
9/8/2010	71	65	62	50	49	48	64	57	46	29.91	29.73	29.59	-		-	12	5	22	0.06
9/10/2010	71	64	59	53	50	48	75	61	47	29.77	29.73	29.09	-	-	-	7	2	16	0
9/10/2010	77	66	53	57	51	46	92	62	38	30	29.02	29.74	-	-	-	7	2	13	0
9/12/2010	66	62	58	58	56	52	96	80	63	30.02	29.99	29.96		_	-	5	2	13	0.07
9/13/2010	72	63	60	62	59	57	100	89	59	30.02	29.91	29.82	-		-	5	1	12	0.07
9/14/2010	76	66	56	62	51	42	99	65	32	29.87	29.85	29.82	-		-	12	2	20	0.07
9/15/2010	70	66	57	45	44	41	61	44	36	30.12	30.00	29.87			-	8	3	18	0.01
9/16/2010	72	62	49	68	55	43	97	80	55	30.12	29.95	29.76	-	-	-	9	3	21	0.33
9/17/2010	71	66	59	67	59	49	99	78	53	30.09	29.90	29.71	-	_	_	7	2	14	0.35
9/18/2010	70	63	58	56	54	51	90	72	54	30.18	30.13	30.08	-	-	-	6	1	13	0.55
3/10/2010	, ,			00	U 04	01		'-	0-7	00.10	00.10	00.00		L	l		<u> </u>	10	

Lat: N 40 ° 45 ' 3 " (40.751 °) Lon: W 73 ° 36 ' 47 " (-73.613 °)

Elevation (ft): 115 MADIS ID: AT063

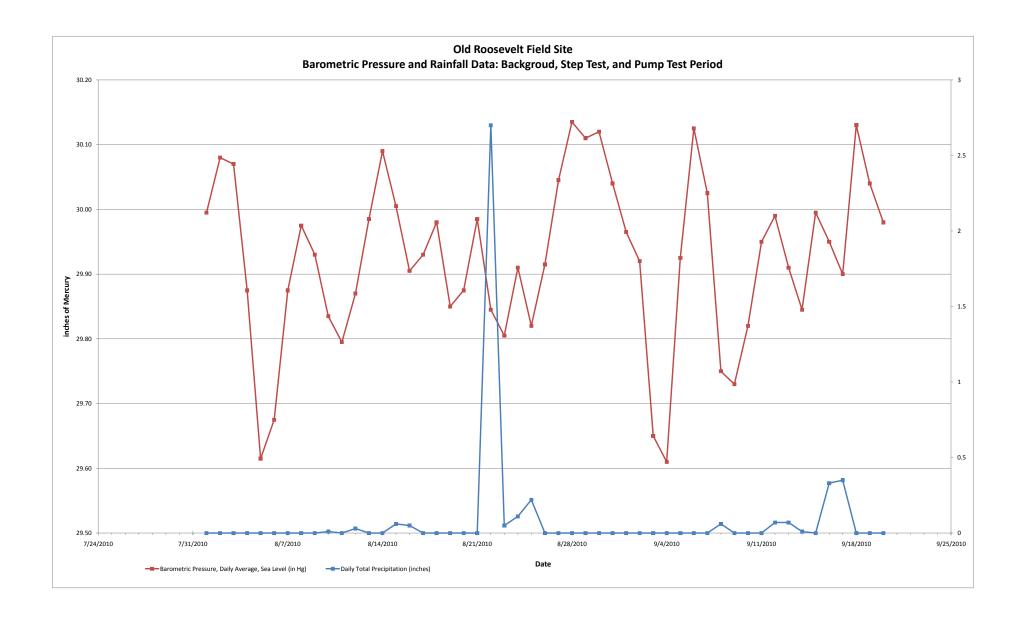
Hardware: Davis Vantage Pro

Weather Station Software: WeatherDisplay:10.37

KNYCARLE1

Carle Place, Carle Place, NY

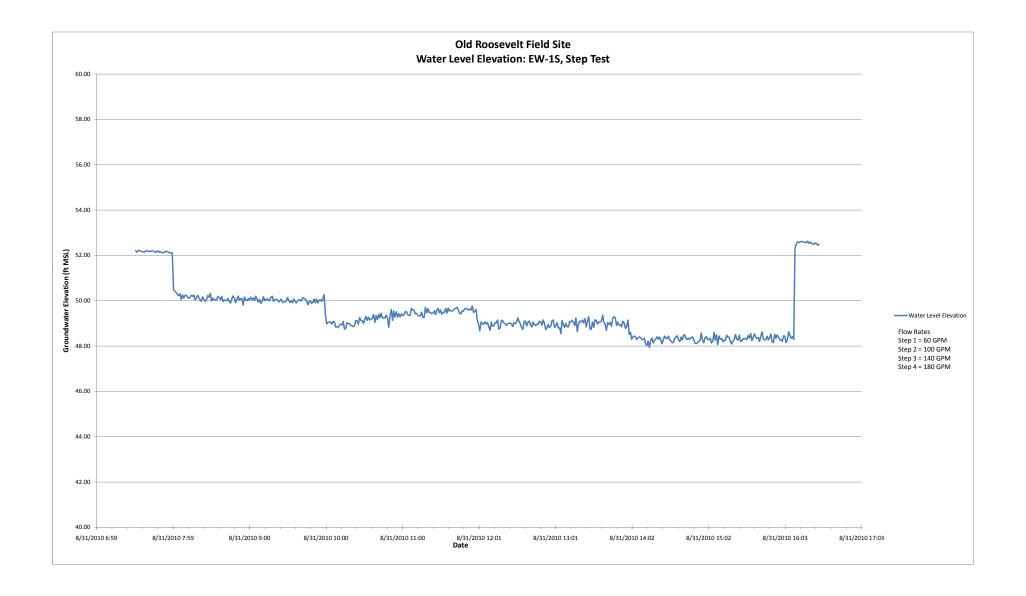
																		Gust	
										Barometric	Pressure, Da	ily Average,						Speed	Daily Total
2010		Temp. (°F)			Dew Point (°F)	Humidity (%)			Sea Level (in Hg)			Visibility (mi)			Wind	(mph)	(mph)	Precipitation (inches)
9/19/2010	77	66	54	63	58	53	99	76	53	30.14	30.04	29.94	-	-	-	5	1	10	0
9/20/2010	71	65	55	62	48	40	83	58	33	30.07	29.98	29.89	-	-	-	8	3	20	0



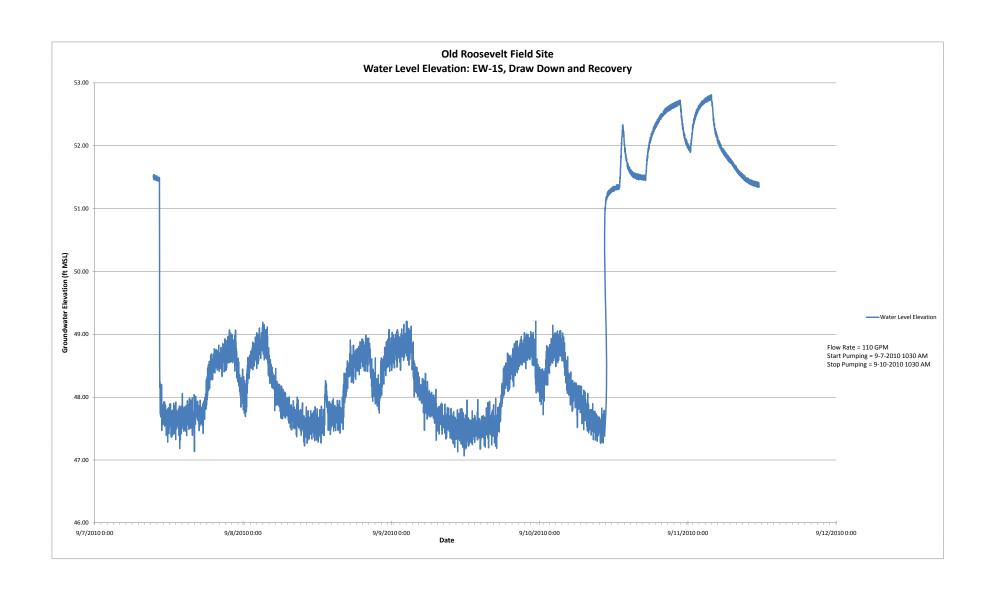
3/6/2011 Garden City.xls

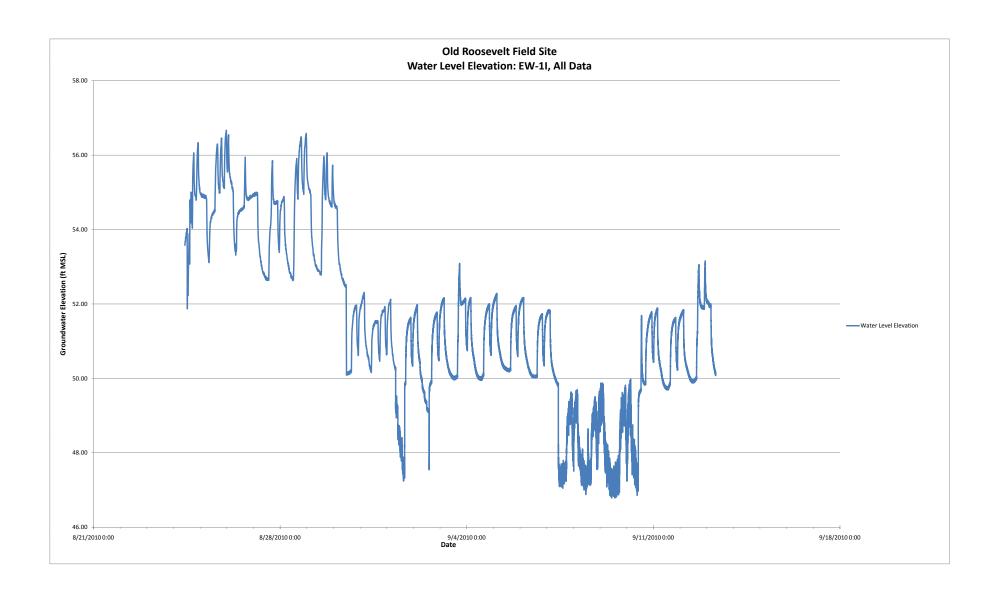
Appendix F Water Level Data Graphs

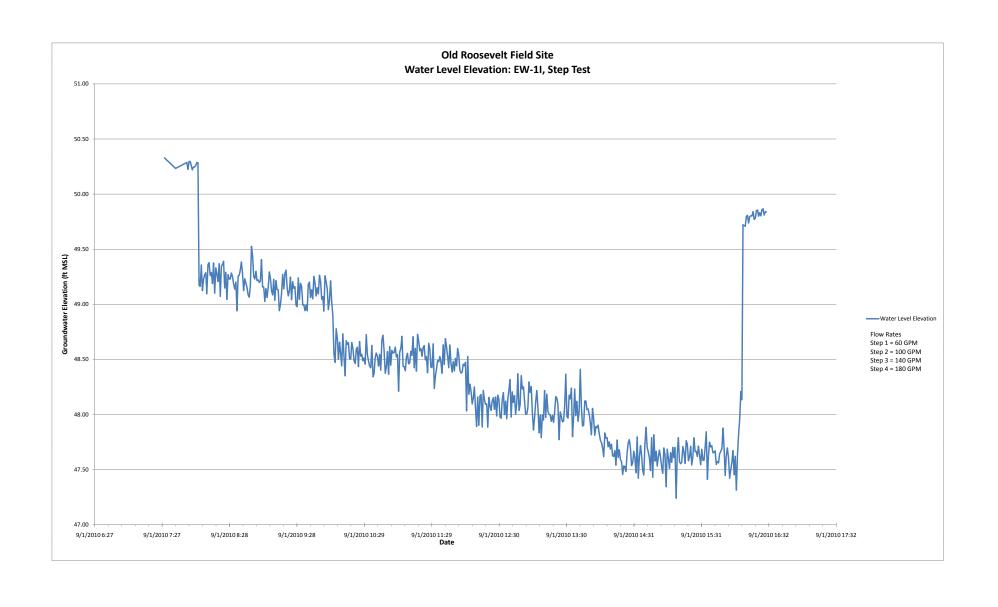


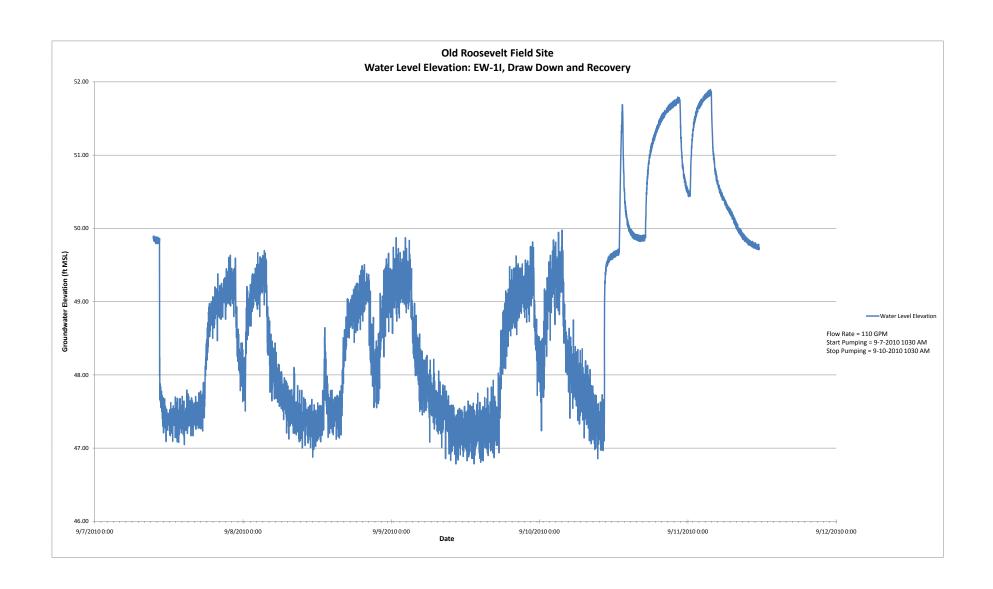


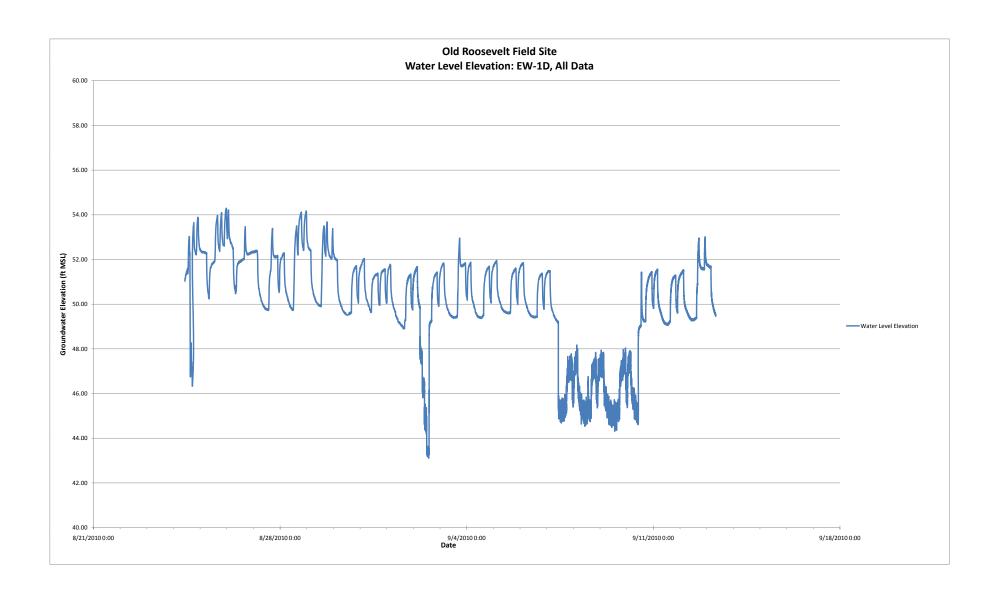
10/5/2010 EW-1S Pump Test.xls

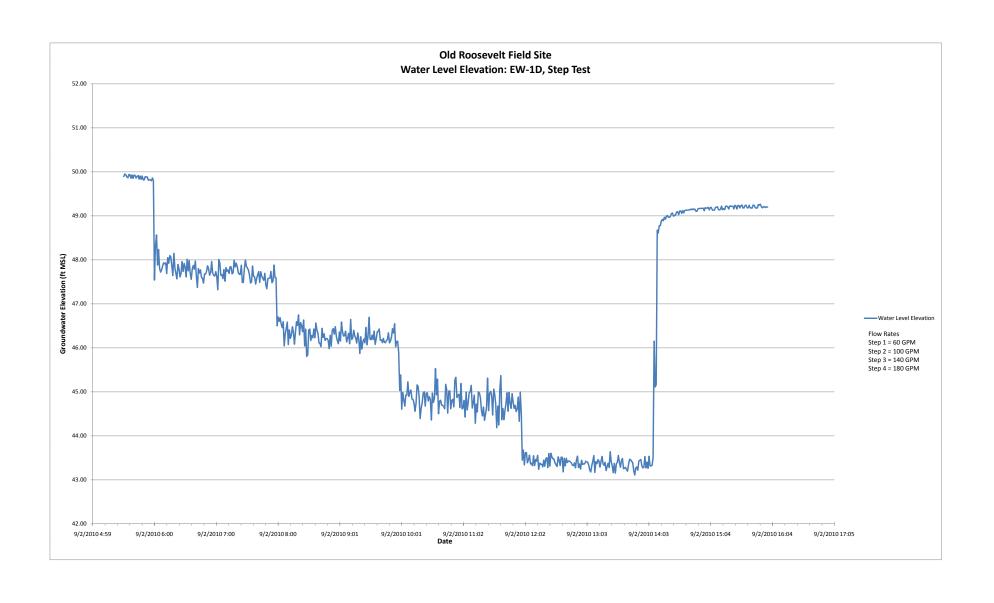


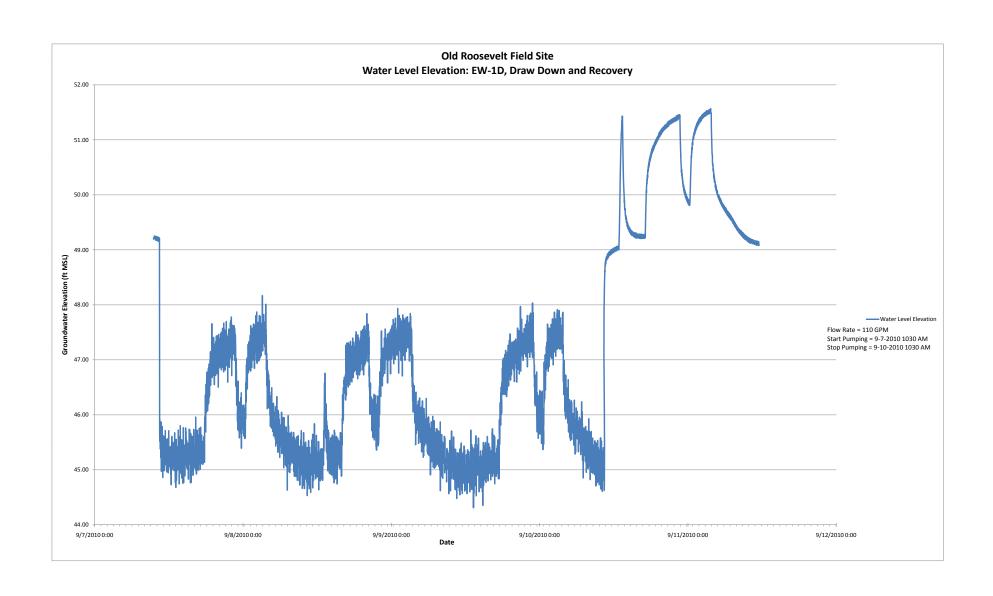


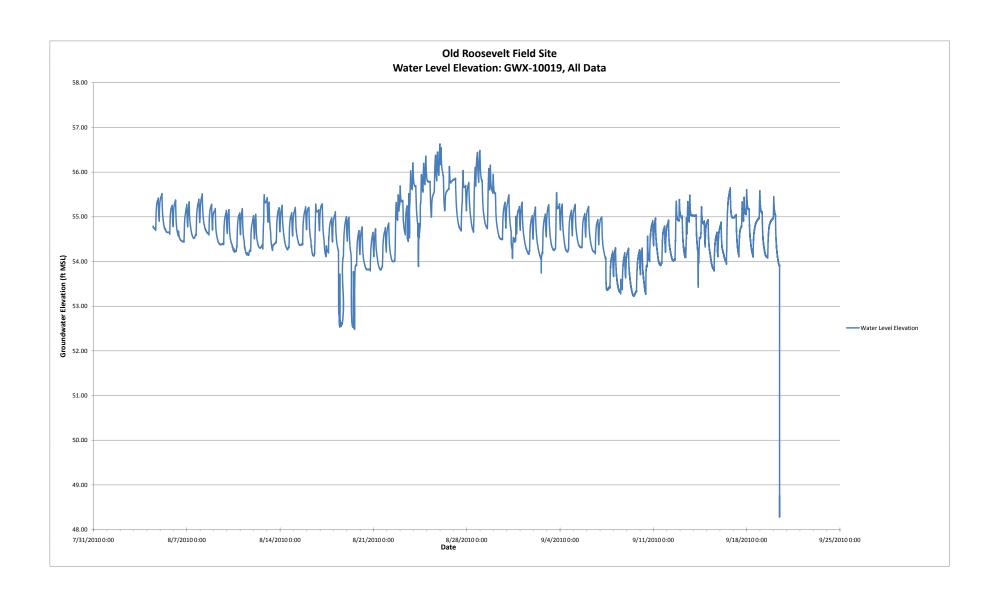


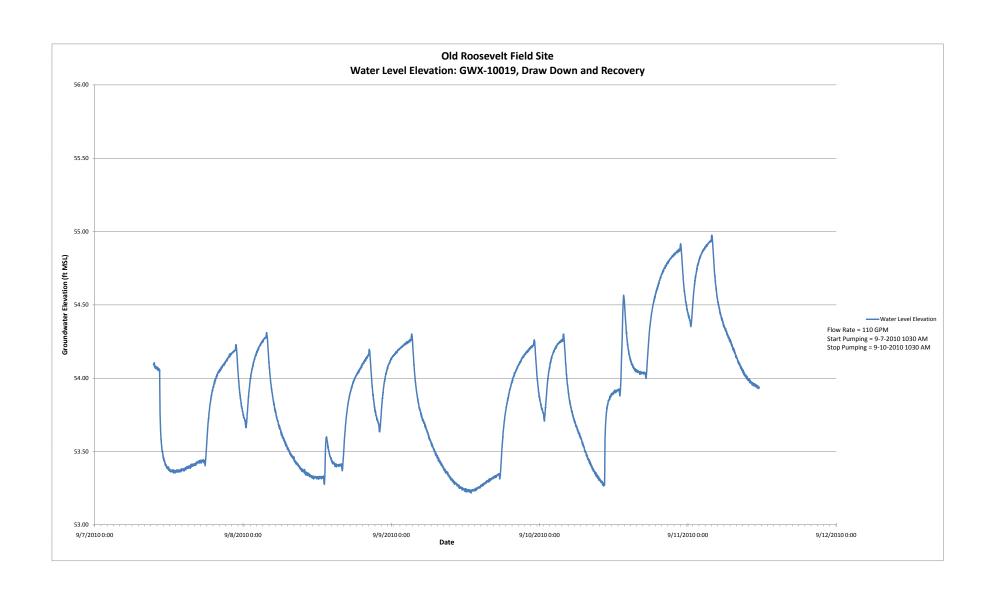




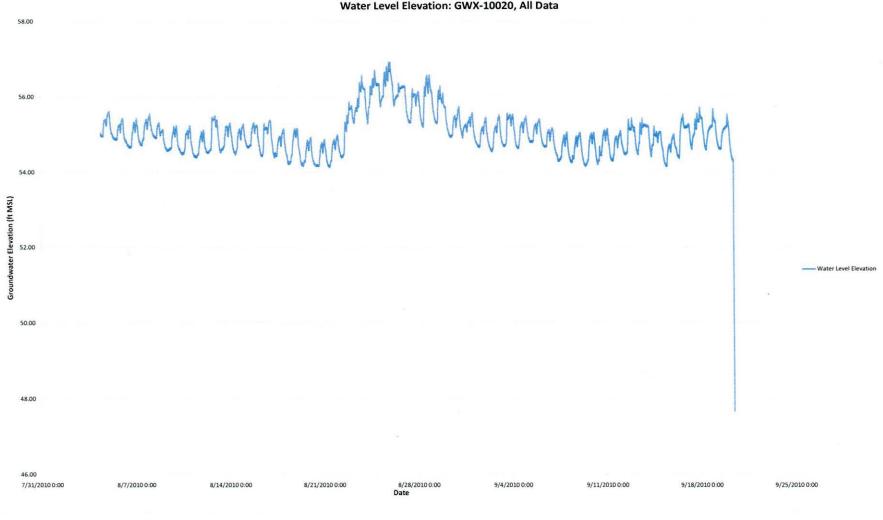


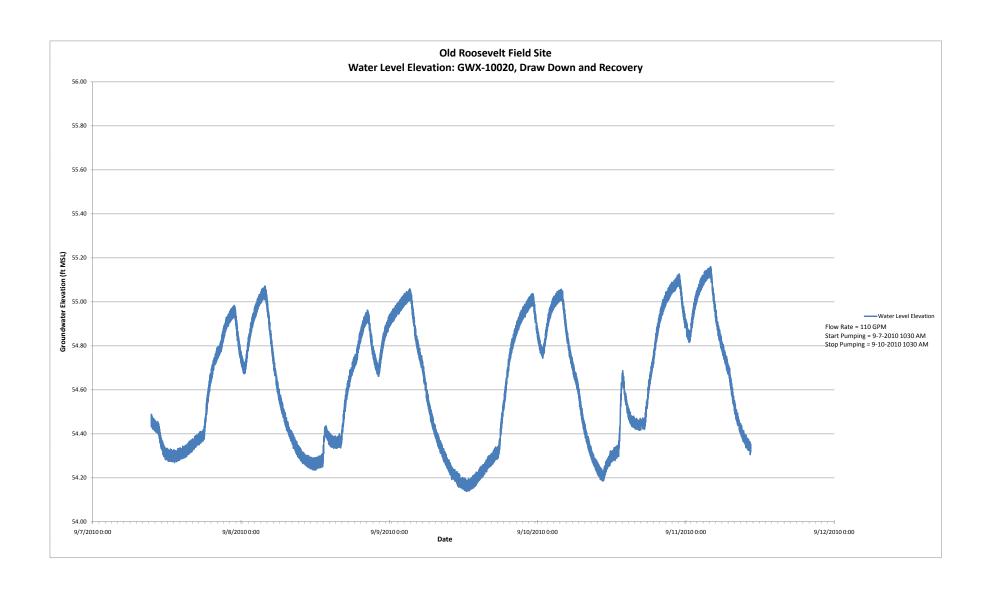


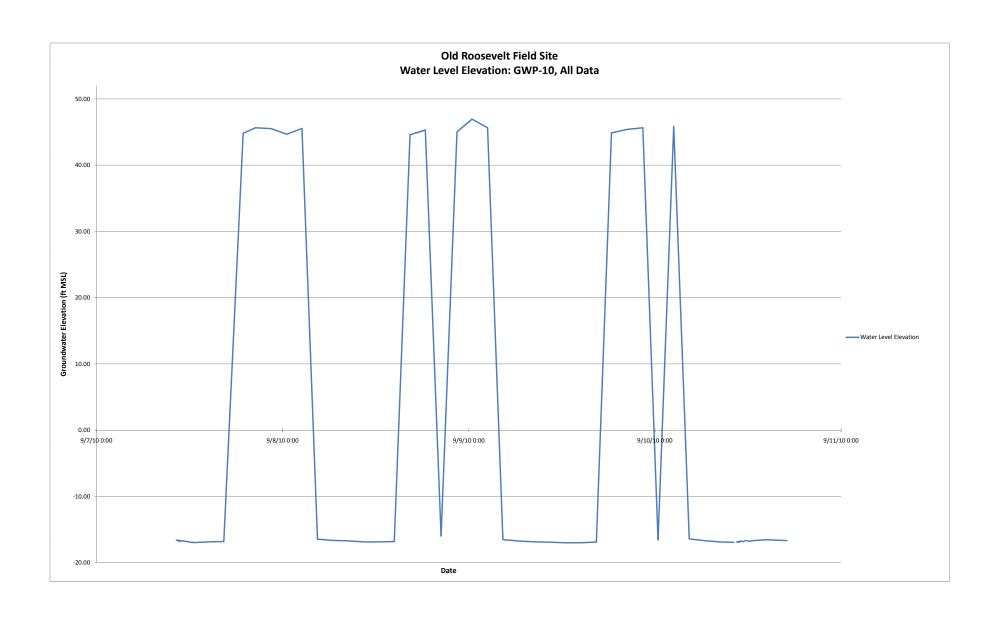


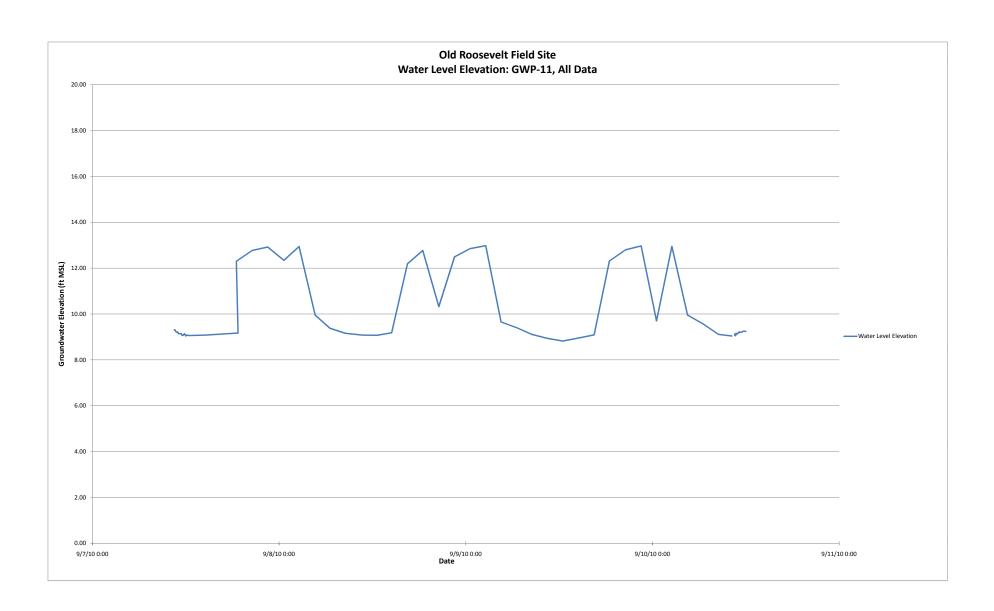


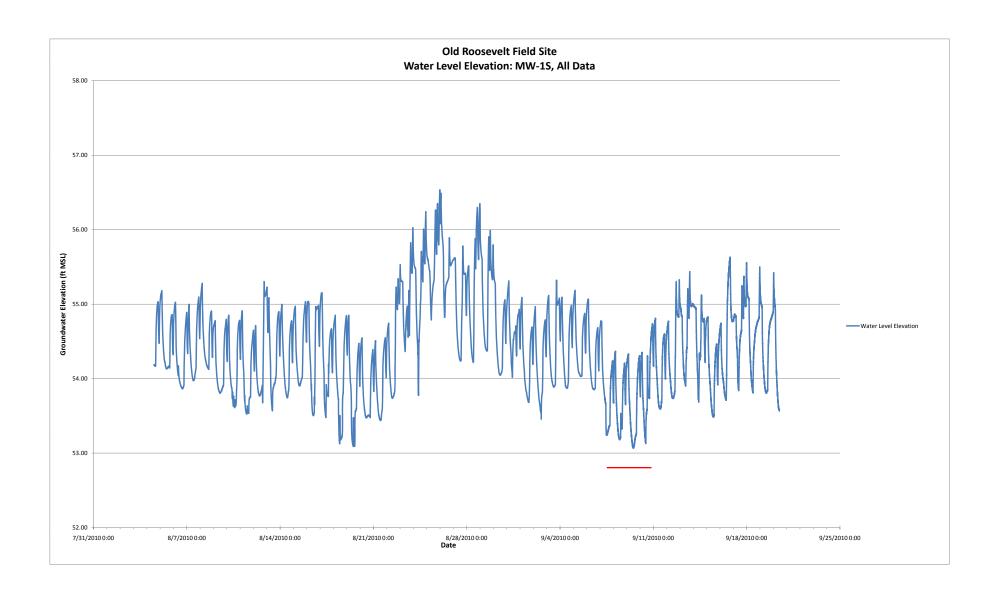
Old Roosevelt Field Site Water Level Elevation: GWX-10020, All Data

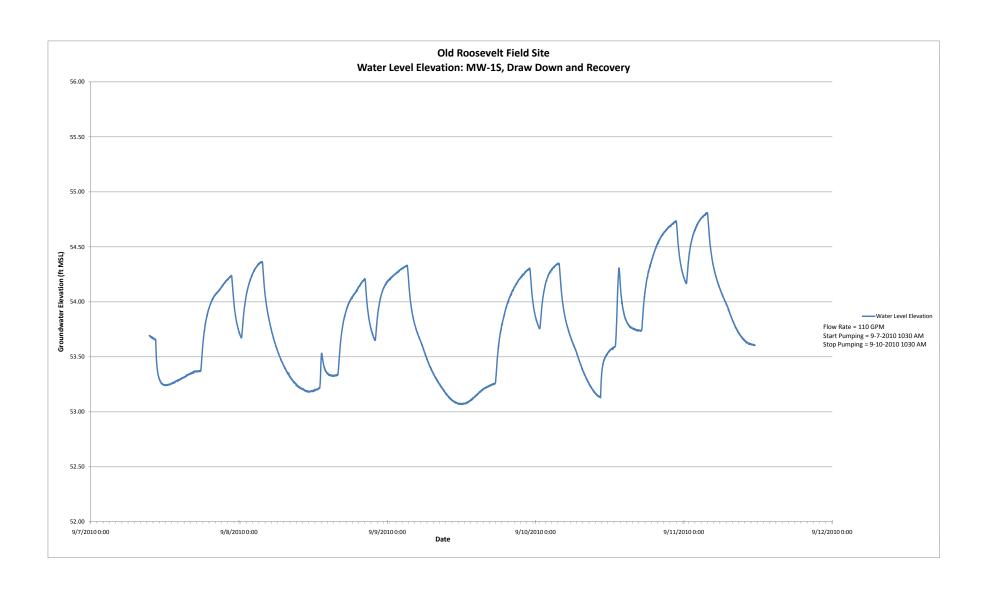


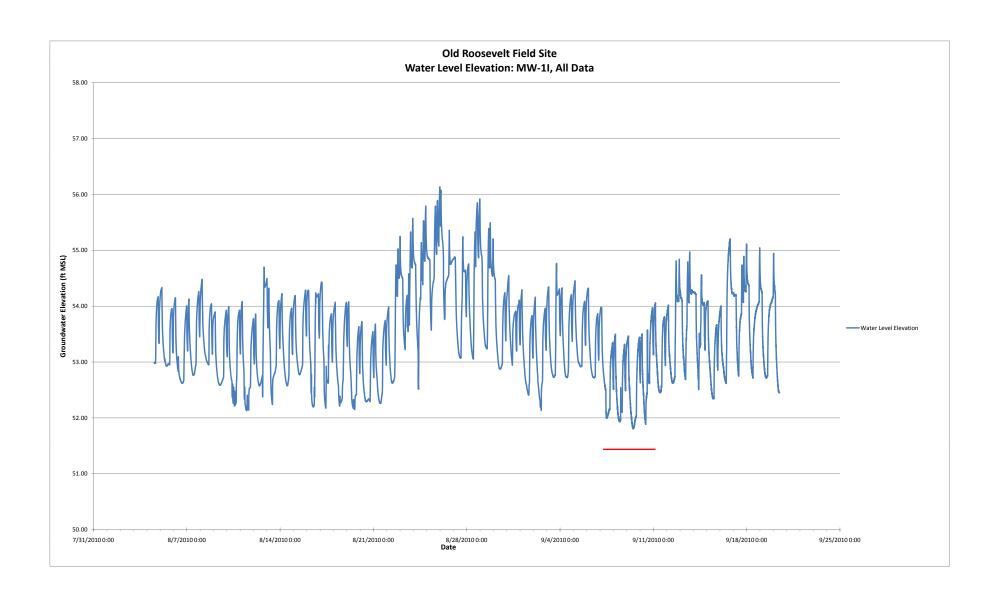


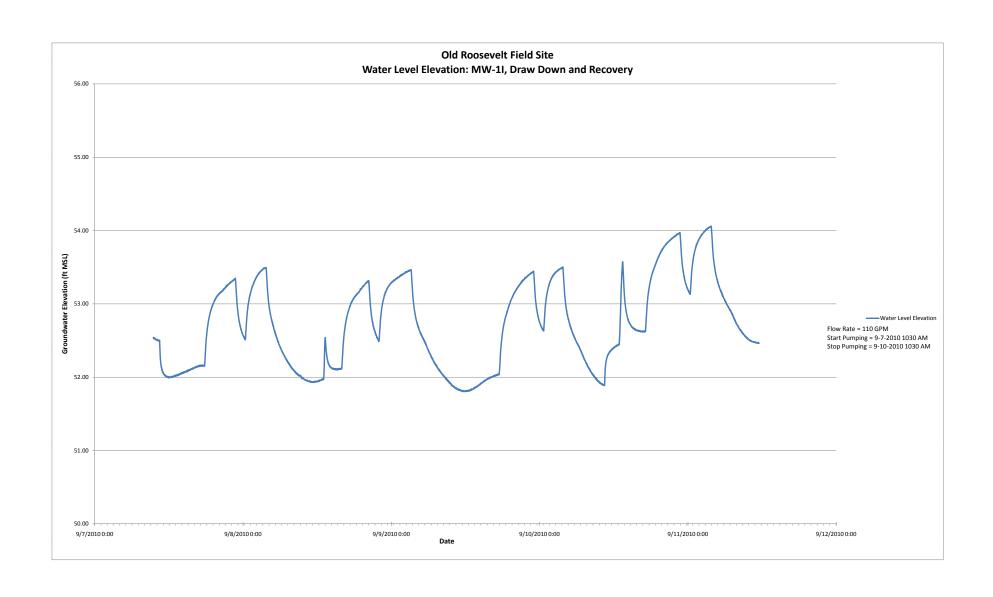


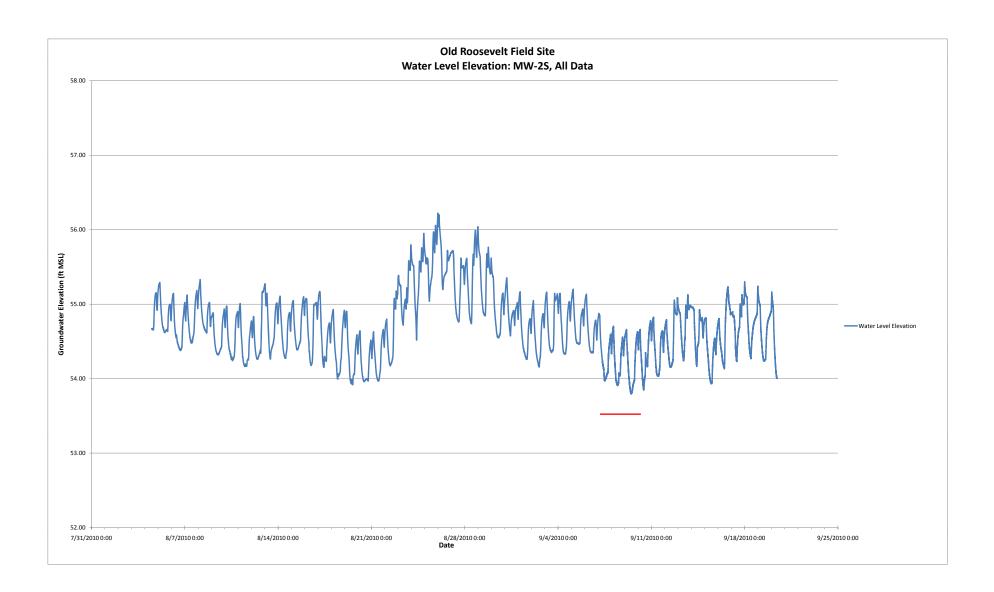


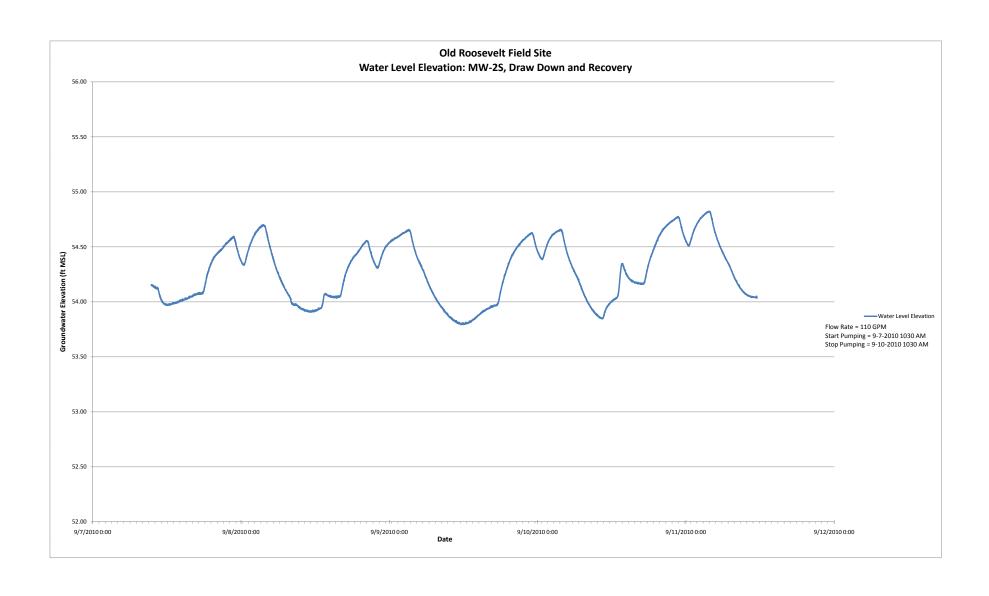


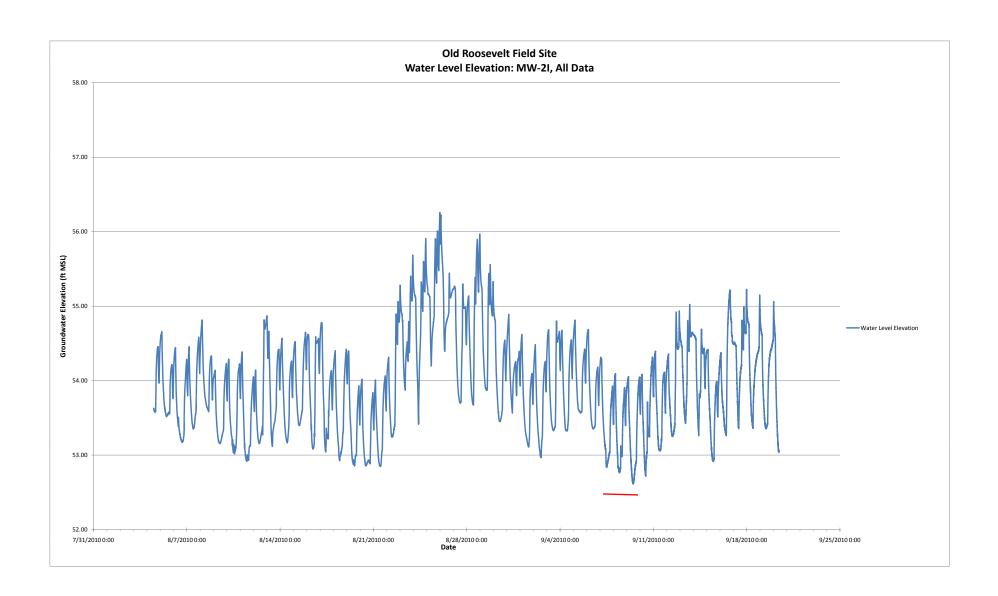


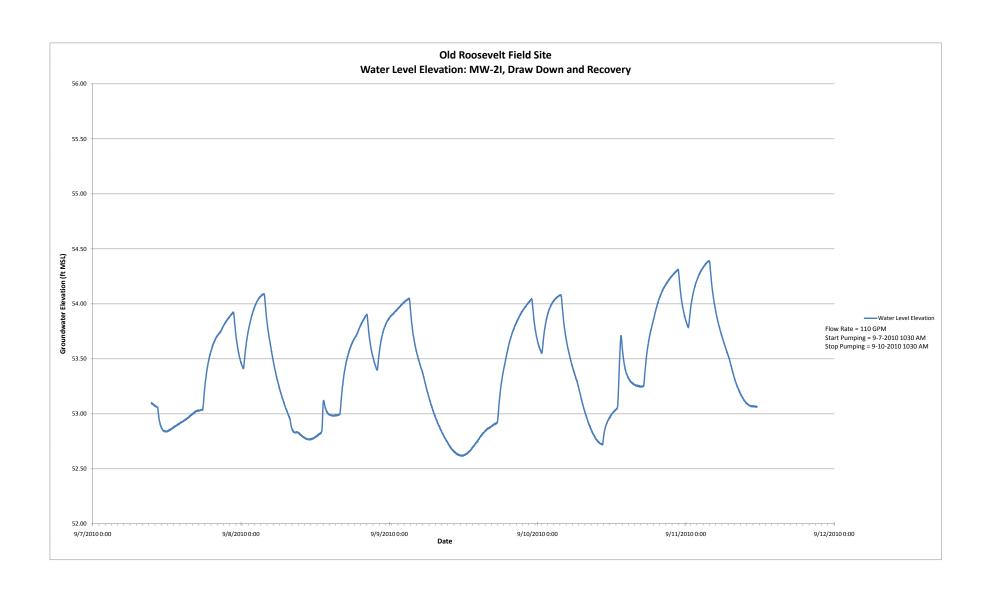


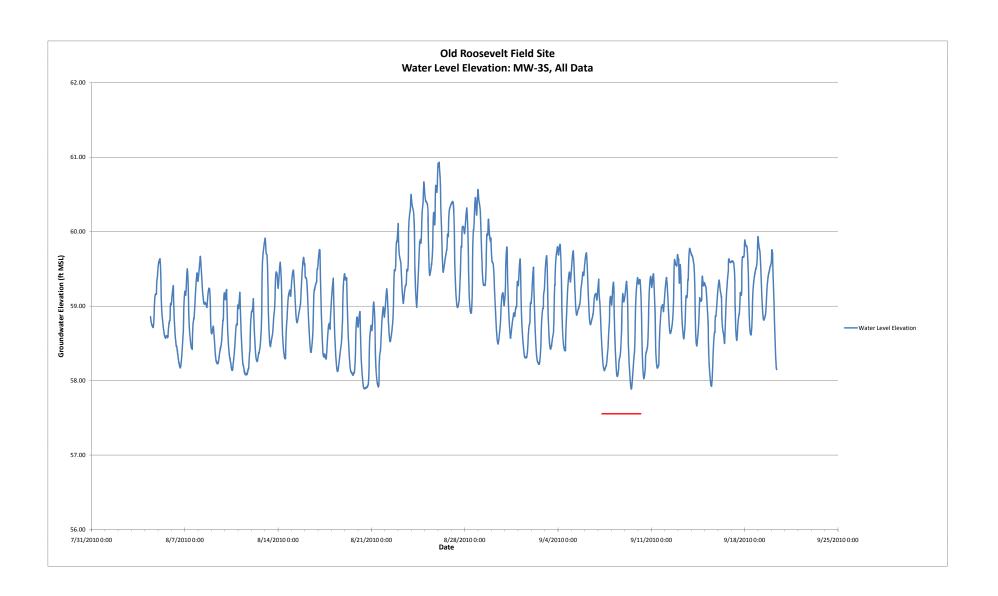


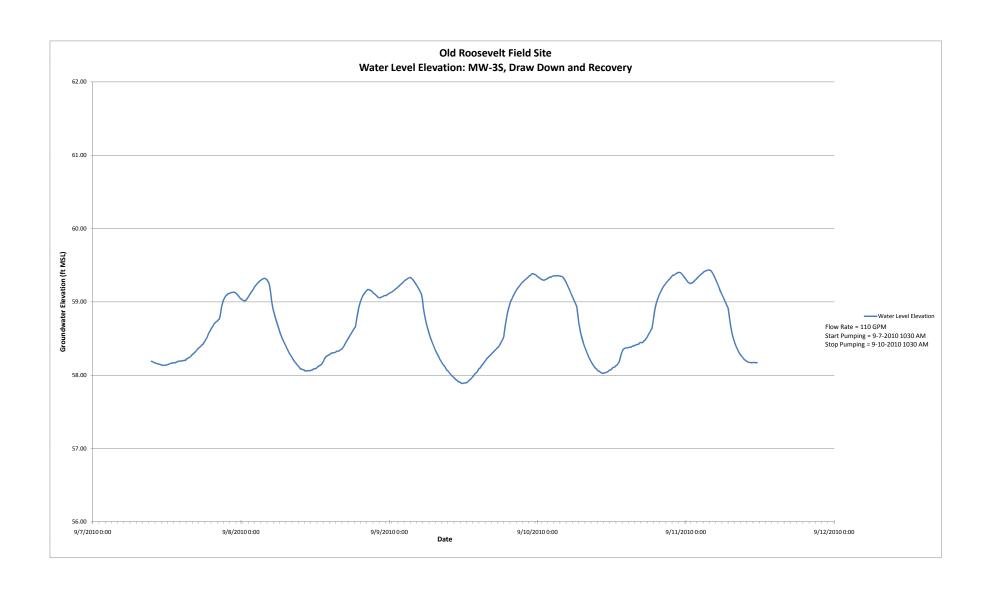


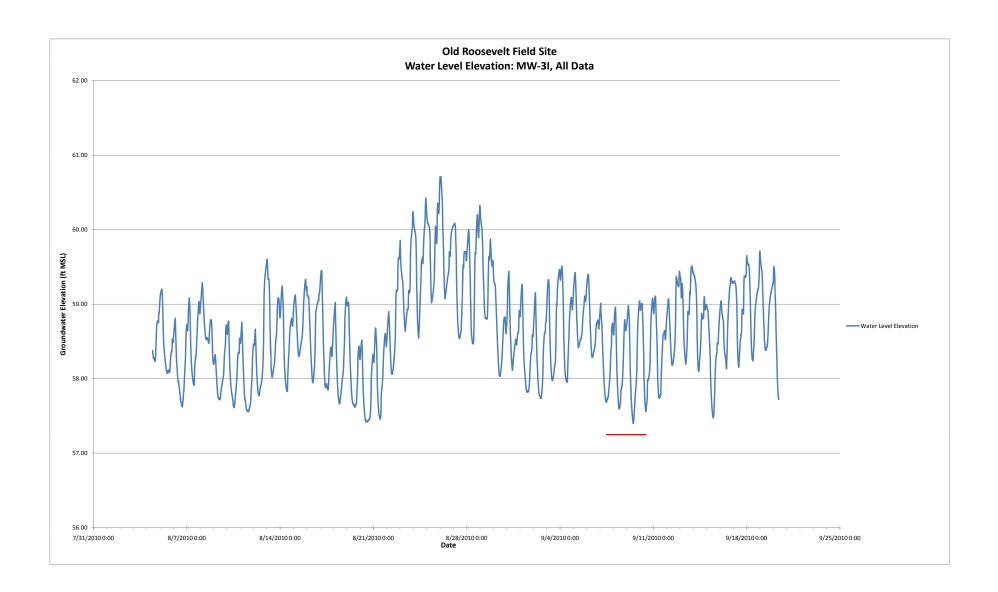


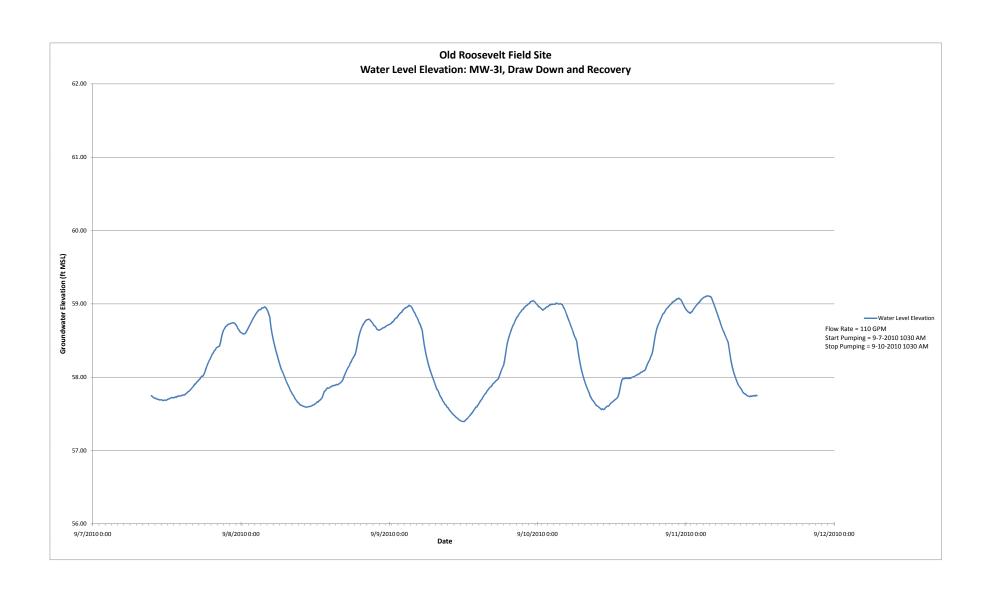


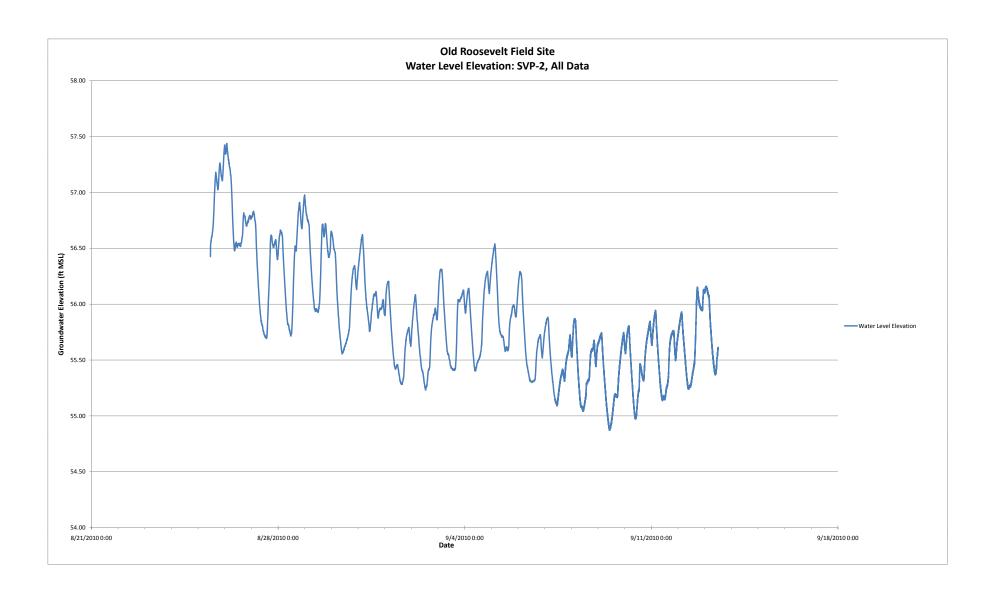


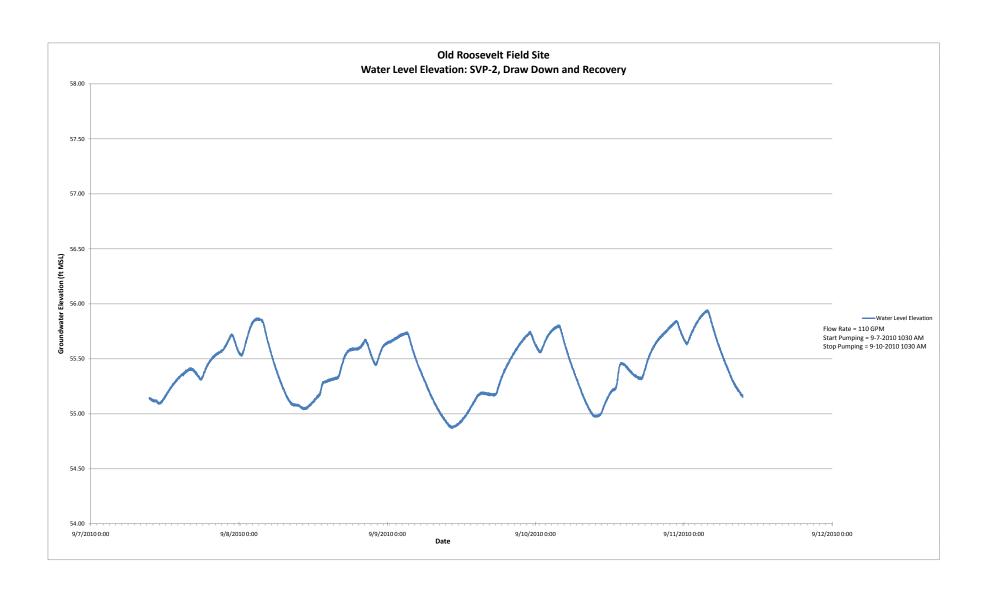


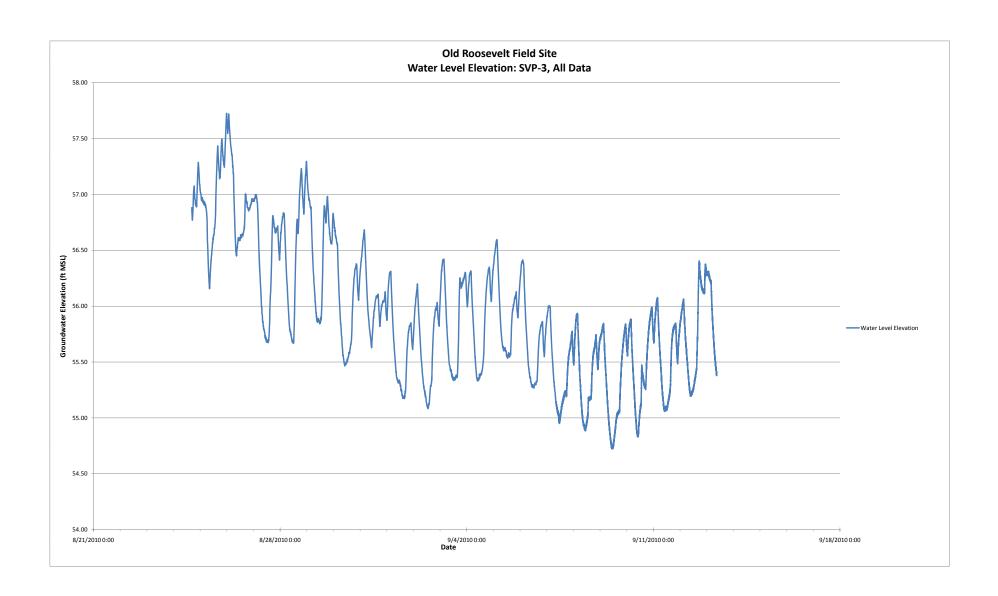


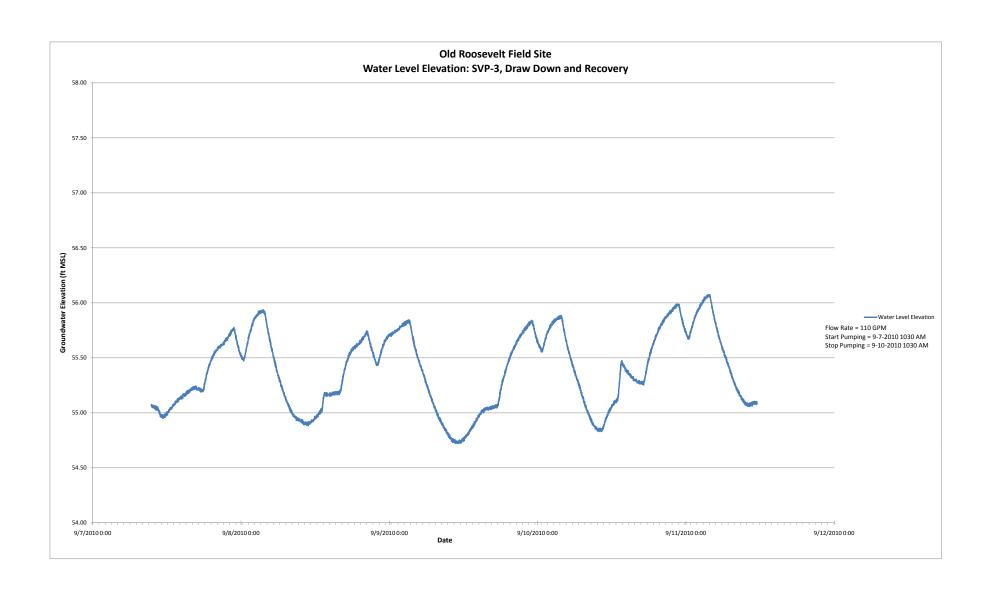


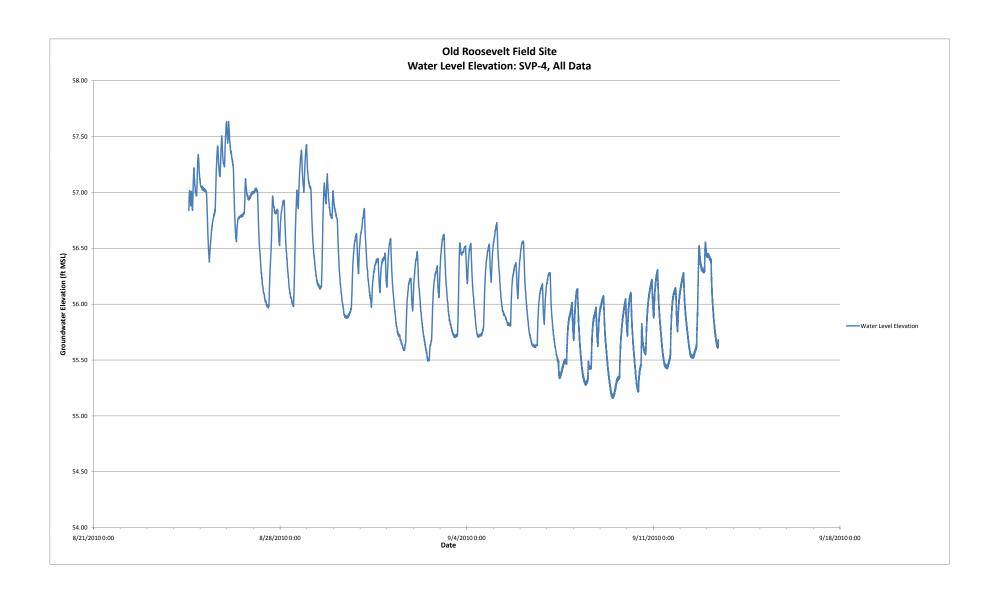


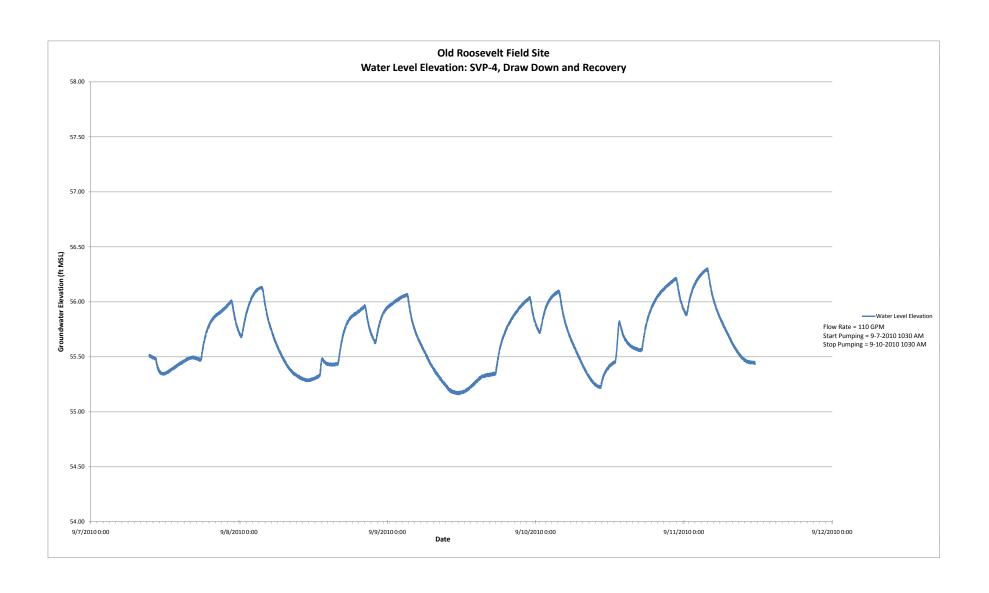


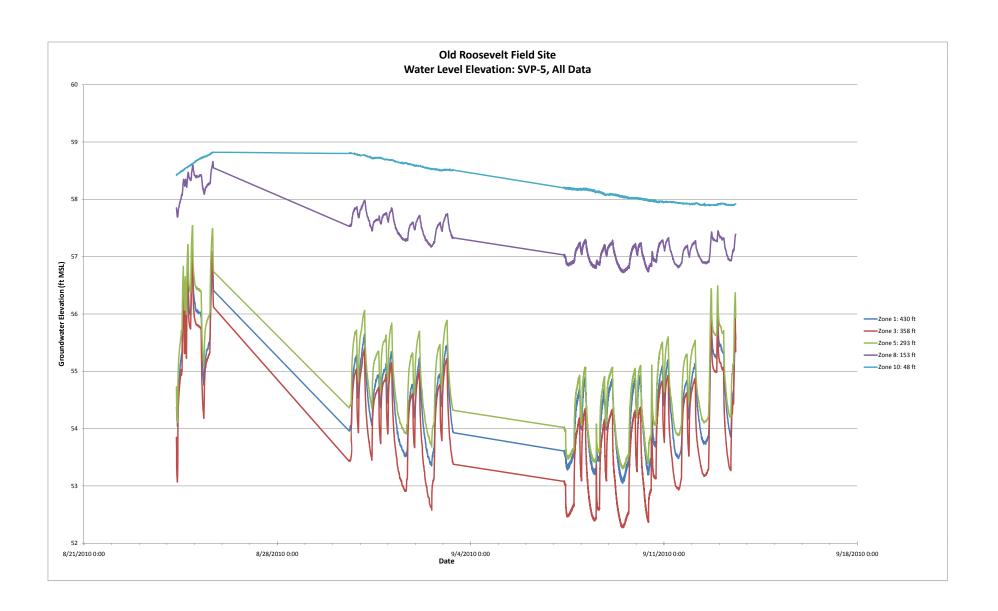


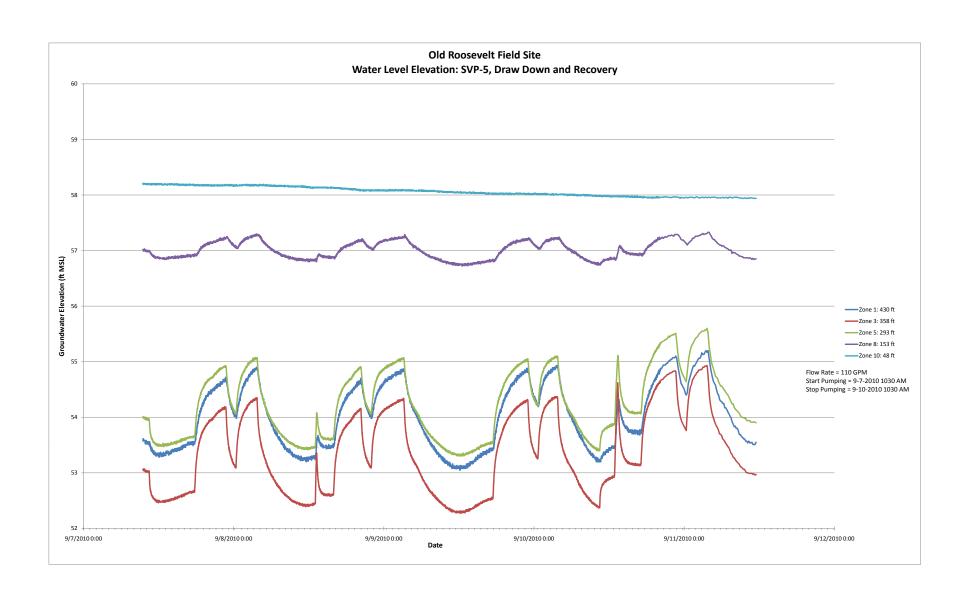


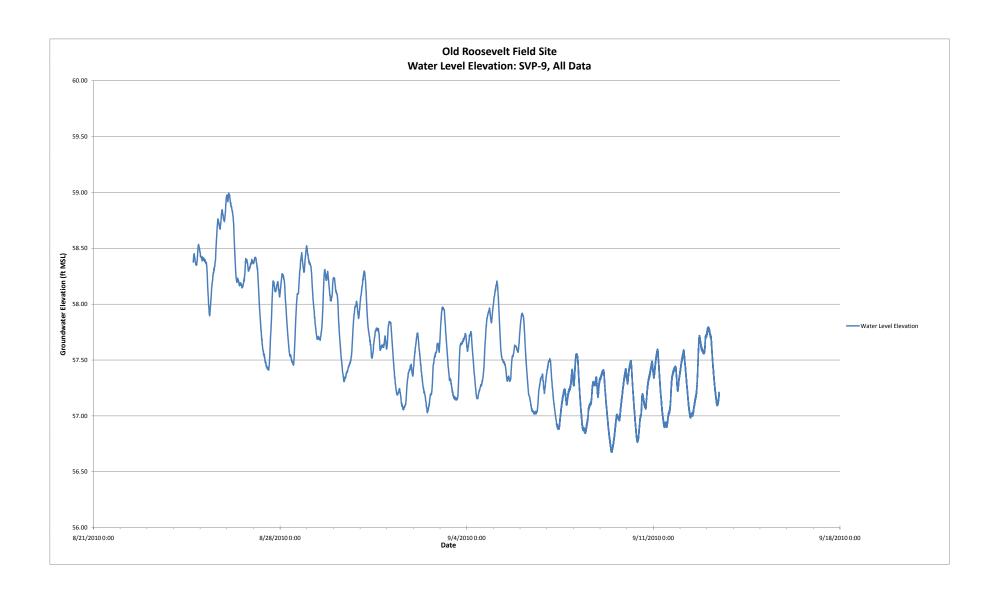


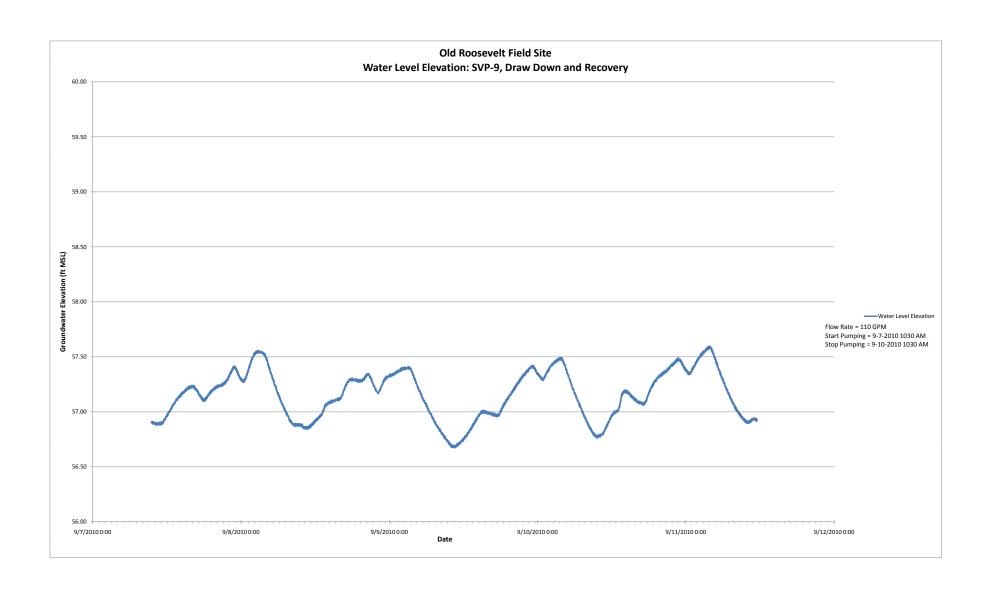


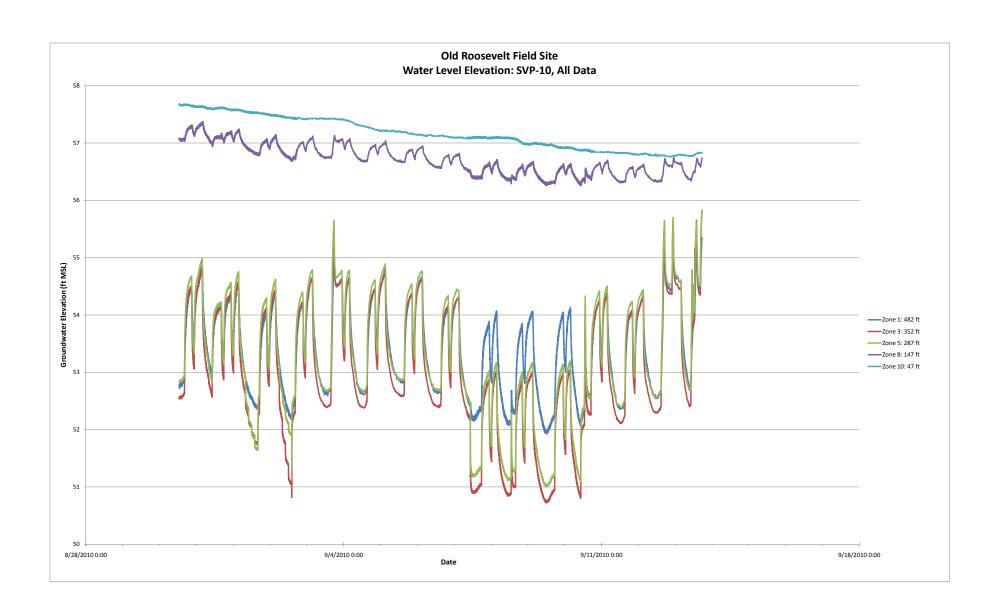


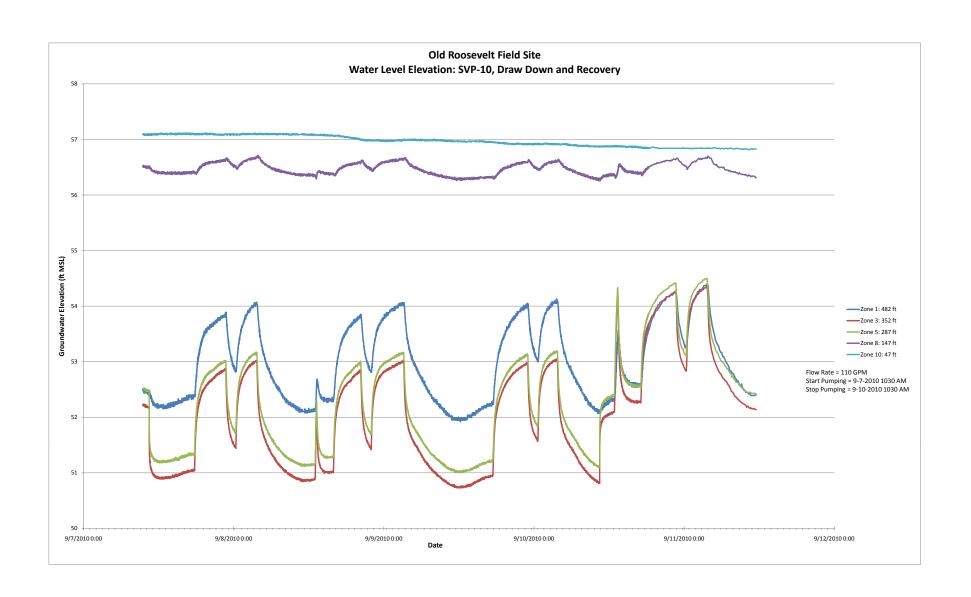


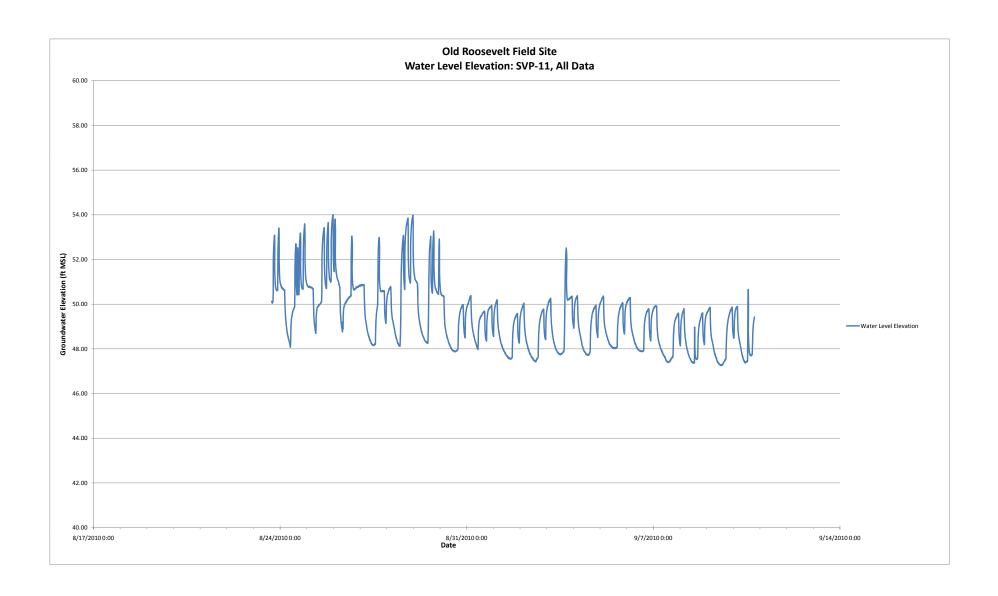


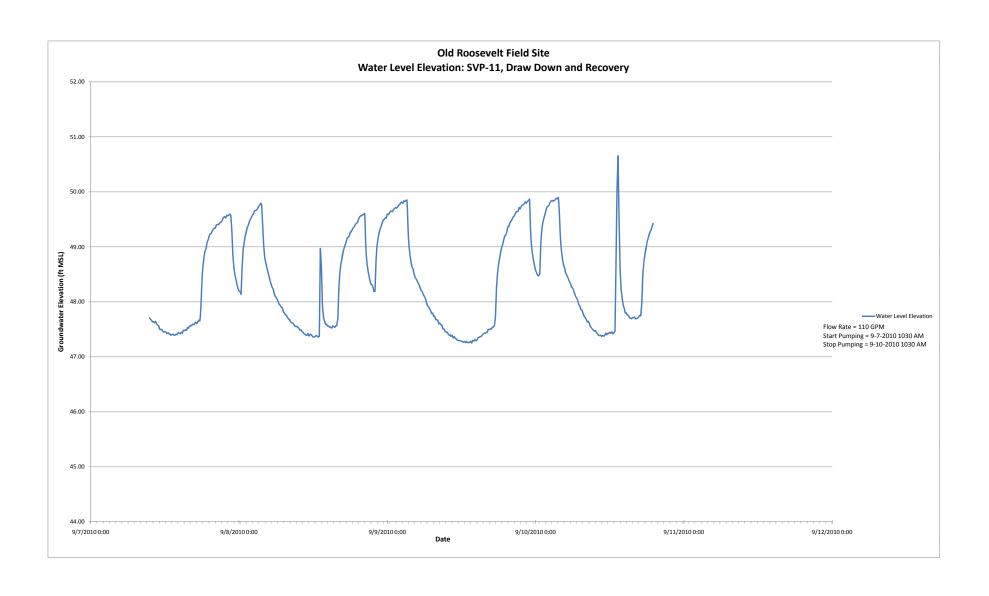




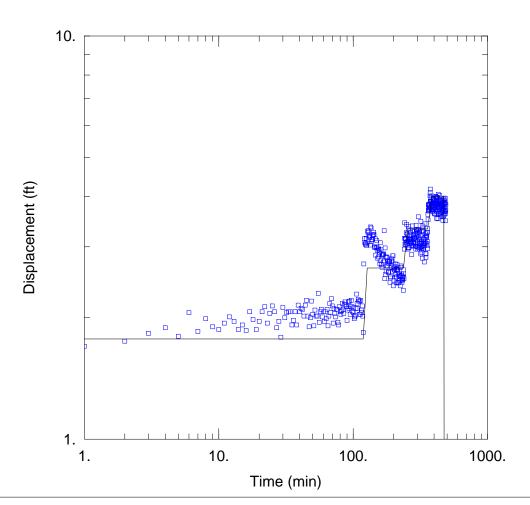








Appendix G
Step Test Analyses



EW-1S

Data Set: C:\...\EW-1S_Step_Test.aqt

Date: 06/21/11 Time: 21:56:01

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

AQUIFER DATA

Saturated Thickness: 452. ft

Aquitard Thickness (b'): 20. ft

Aquitard Thickness (b'): 1. ft

WELL DATA

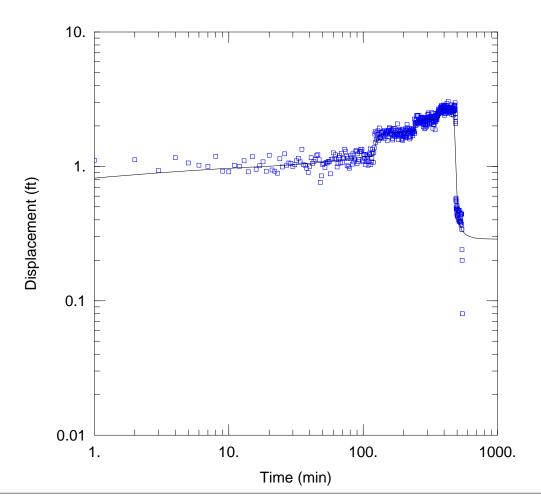
Pumpin	g Wells		Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10	2105573	185553	□ EW-1S	2	105932.021	86070.802
EW-1S	2105932.021	86070.802	9			

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

 $T = 2.716E+4 \text{ ft}^2/\text{day}$ S = 5.58E-5 Sw = 0.

 $C = \frac{10}{0} \cdot min^2/ft^5$ $P = \frac{0}{1.889}$



EW-1I

Data Set: C:\...\EW-1I_Step_Test.aqt

Date: 06/21/11 Time: 21:54:01

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

AQUIFER DATA

Saturated Thickness: 452. ft Anisotropy Ratio (Kz/Kr): 0.01 Aquitard Thickness (b'): 20. ft Aquitard Thickness (b"): 1. ft

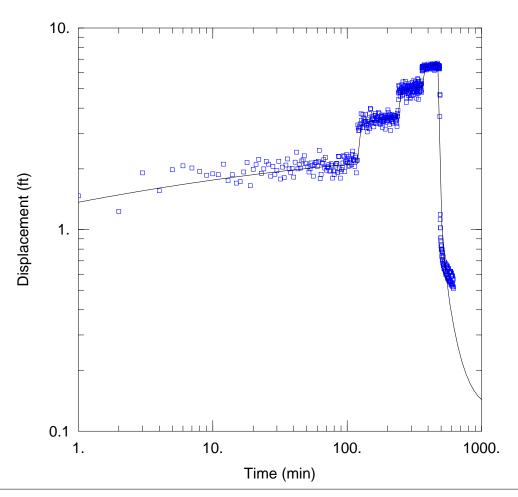
WELL DATA

	Pumping Wells		Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)	
GWP-10	2105573	185553	□ EW-1I	2105927.56	186080.238	
EW-1I	2105927.5(1	86080.238	33			

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

 $\begin{array}{lll} T &= 5.785 \underline{E} + 4 & \text{ft}^2/\text{day} & S &= \underline{0.0161} \\ \text{r/B} &= \underline{0.8375} & Sw &= \underline{0}. \\ C &= \underline{0}. & \text{min}^2/\text{ft}^5 & P &= \underline{1.917} \\ \end{array}$



EW-1D STEP TEST

Data Set: C:\...\EW-1D_Step_Test.aqt

Date: 06/21/11 Time: 21:51:29

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

AQUIFER DATA

Saturated Thickness: <u>452.</u> ft Anisotropy Ratio (Kz/Kr): <u>0.01</u> Aquitard Thickness (b'): 20. ft Aquitard Thickness (b"): 1. ft

WELL DATA

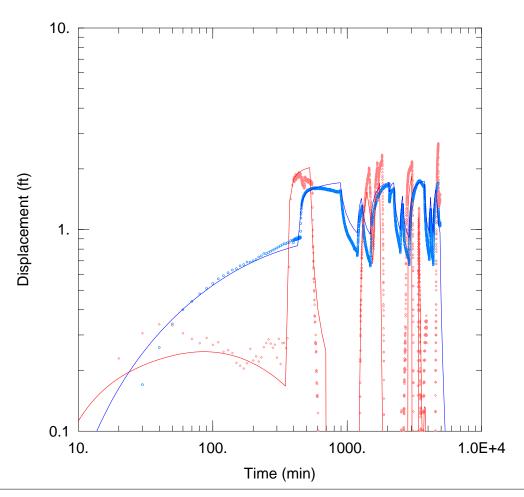
Pumping	g Wells			Observation	n Wells	
Well Name	X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10	2105573	185553	□ EW-1D	2	105923.00	86089.350
EW-1D 2	105923.03	86089.350	9			

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

 $\begin{array}{lll} T &= \underline{3.858E+4} \text{ ft}^2\text{/day} & S &= \underline{0.246} \\ \text{r/B} &= \underline{2.787} & Sw &= \underline{0}. \\ C &= \underline{0}. \text{ min}^2\text{/ft}^5 & P &= \underline{1.787} \\ \end{array}$

Appendix H Extraction Well Pumping Well Data Analyses



GWX-10019, EW PUMPING

Data Set: C:\...\GWX-10019-EW_Pump_Test-HJ.aqt

Date: 06/24/11 Time: 15:01:17

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY
Test Well: EW Pump Test
Test Date: 9/7-10/2010

WELL DATA

Pumping Wells

X (ft) Y (ft)

2105573 185553

(ft)		Well Name
553		• GWX-10019
0.802	29	
0.238	3	

	X (ft)	Y (ft)	
2	105876.581	85981.259)

Observation Wells

GWP-10 2105573 185553 EW-1S 2105932.02186070.8029 EW-1I 2105927.5(186080.2383 EW-1D 2105923.03186089.3509

SOLUTION

Aquifer Model: Leaky

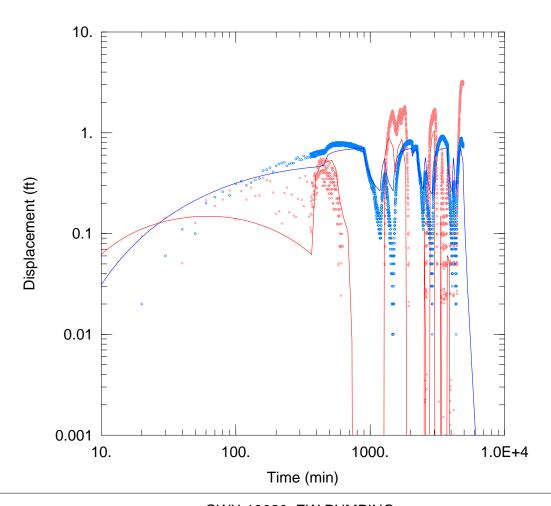
Solution Method: Hantush-Jacob

 $T = \frac{4.866E+4}{0.1} \text{ ft}^2/\text{day}$

S = 0.0006809Kz/Kr = 0.01

b = $\frac{0.1}{452}$. ft

Well Name



GWX-10020, EW PUMPING

Data Set: C:\...\GWX-10020-EW_Pump_Test-HJ.aqt

Date: 06/26/11 Time: 11:43:54

PROJECT INFORMATION

Company: CDM Client: U.S. EPA Project: 3220-023

Location: Garden City, NY Test Well: EW Pump Test Test Date: 9/7-10/2010

WELL DATA

Observation Wells Pumping Wells X (ft)

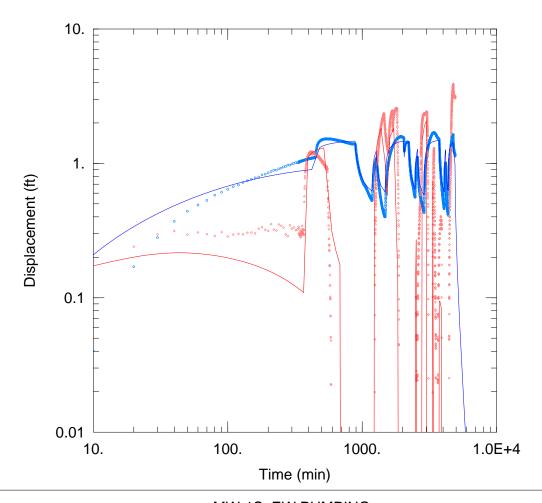
П		9		0.000			
	Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)	
	GWP-10	2105573	185553	• GWX-10020	2106480.13	185775.454	
	EW-1S 2	105932.021	86070.802	9	·		
	EW-11 2	105927.5(1	86080.238	3			
	EW-1D 2	105923.01	86089.350	9			
П							

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

 $= 7.464E+4 \text{ ft}^2/\text{day}$ Т = 0.0007254

= 0.1992 r/B Kz/Kr = 0.01b = 452. ft



MW-1S, EW PUMPING

Data Set: C:\...\MW-1S-EW_Pump_Test-HJ.aqt

Date: 06/26/11 Time: 16:27:28

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY
Test Well: EW Pump Test
Test Date: 9/7-10/2010

WELL DATA

Pumping Wells Observation Wells

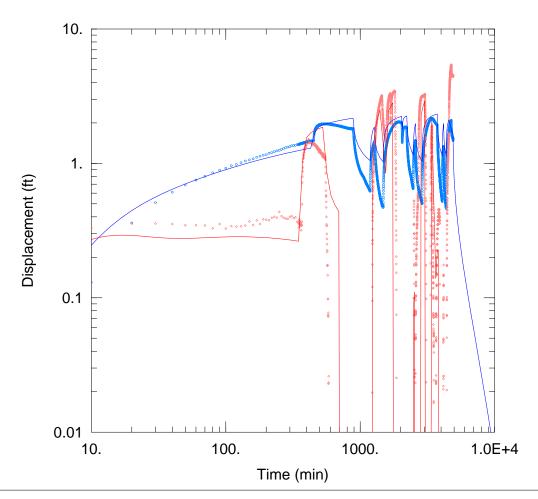
l	Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
	GWP-10	2105573	185553	∘ MW-1S	2106106.46	186328.080
	EW-1S 2	105932.021	86070.8029)	·	
	EW-11 2	105927.5(1	86080.2383	3		
	EW-1D 2	105923.001	86089.3509)		
ı						

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

 $T = \frac{6.051E+4}{0.1100}$ ft²/day $S = \frac{0.0002997}{0.01}$

r/B = 0.1199b = 452. ft



MW-11, EW PUMPING

Data Set: C:\...\MW-1I-EW_Pump_Test-HJ.aqt

Date: 06/24/11 Time: 15:53:23

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY
Test Well: EW Pump Test
Test Date: 9/7-10/2010

WELL DATA

Pumping Wells Observation Wells

Well Name		X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10		2105573	185553	• MW-1I	2	106083.14	186321.746
EW-1S	2	105932.021	86070.802	.9			
EW-1I	2	105927.5(1	86080.238	3			
EW-1D	2	105923.01	86089.350	9			

SOLUTION

Aquifer Model: Leaky

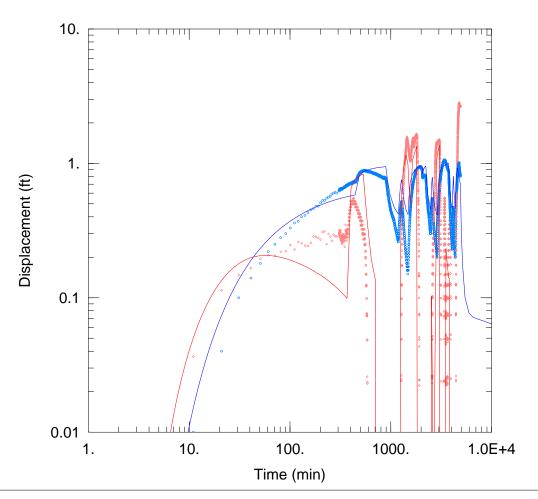
 $T = 4.818E+4 \text{ ft}^2/\text{day}$

r/B = $\frac{0.1}{452}$. ft

Solution Method: Hantush-Jacob

S = 0.0007946

Kz/Kr = 0.01



MW-2S, EW PUMPING

Data Set: C:\...\MW-2S-EW_Pump_Test-NU.aqt

Date: 06/26/11 Time: 16:18:59

PROJECT INFORMATION

Company: CDM Client: U.S. EPA Project: 3220-023

Location: Garden City, NY Test Well: EW Pump Test Test Date: 9/7-10/2010

AQUIFER DATA

Saturated Thickness: 452. ft

WELL DATA

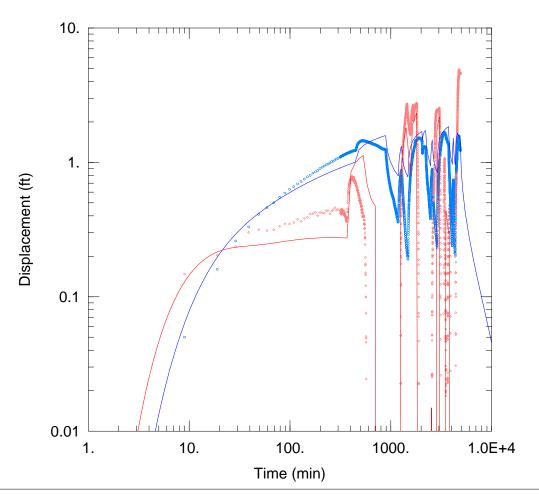
	Pumping W	ells		Observation Wells			
Well Name		X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10	21	05573	185553	∘ MW-2S	2	106577.521	86411.469
EW-1S	2105	5932.021	86070.802	29			
EW-1I	2105	5927.5(1	86080.238	33			
FW-1D	2105	5923.0:1	86089.350)9			

SOLUTION

Aquifer Model: Unconfined Solution Method: Neuman

 $T = 4.631E+4 \text{ ft}^2/\text{day}$ S = 0.001017Sy = 0.0572

 $\beta = \overline{0.06}$



MW-2I, EW PUMPING

Data Set: C:\...\MW-2I-EW_Pump_Test-HJ.aqt

Date: 06/26/11 Time: 16:34:51

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY
Test Well: EW Pump Test
Test Date: 9/7-10/2010

WELL DATA

Pumping Wells
Observation Wells

Well Name

Observation Wells

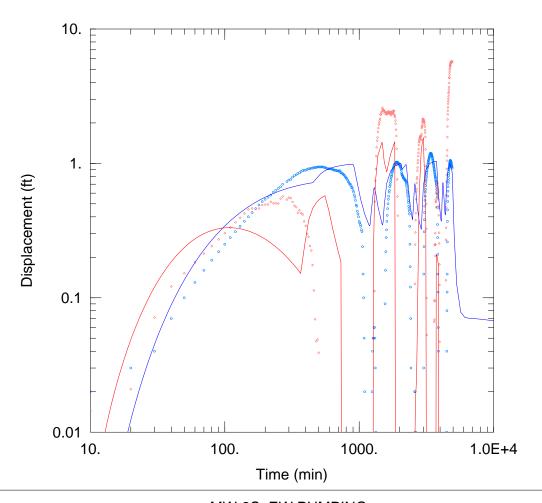
Well Name		X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
GWP-10		2105573	185553	∘ MW-2I	2106564.06	186423.590
EW-1S	2	105932.021	86070.802	9		
EW-1I	2	105927.5(1	86080.238	3		
EW-1D	2	105923.001	86089.350	9		

SOLUTION

Aquifer Model: <u>Leaky</u> Solution Method: <u>Hantush-Jacob</u>

T = $\frac{5.028E+4}{0.1}$ ft²/day S = $\frac{0.001024}{0.01}$ Kz/Kr = $\frac{0.001024}{0.01}$

 $b = \frac{0.1}{452}$. ft



MW-3S, EW PUMPING

Data Set: C:\...\MW-3S-EW_Pump_Test-NU.aqt

Time: 16:17:21 Date: 06/26/11

PROJECT INFORMATION

Company: CDM Client: U.S. EPA Project: 3220-023

Location: Garden City, NY Test Well: EW Pump Test Test Date: 9/7-10/2010

AQUIFER DATA

Saturated Thickness: 452. ft

WELL DATA

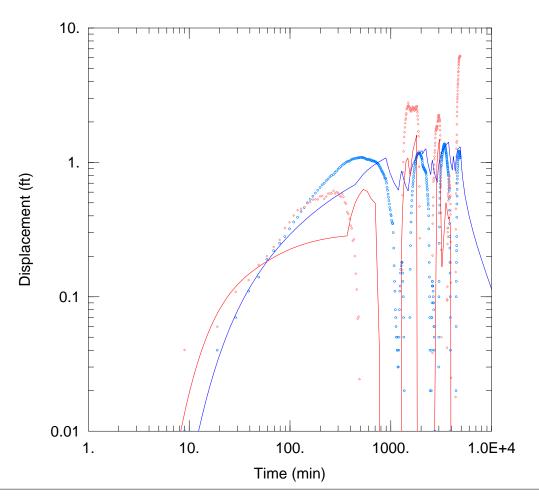
	Pumping Wells		Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)	
GWP-10	2105573	185553	MW-3S	2107725.8(185	540.091	
EW-1S	2105932.021	186070.8029	9			
EW-1I	2105927.5(1	186080.2383	3			
FW-1D	2105923 03	186089 3509)			

SOLUTION

Aquifer Model: Unconfined Solution Method: Neuman

 $T = 2.05E+4 \text{ ft}^2/\text{day}$ S = 0.0004107 $Sy = \overline{0.0572}$

 $\beta = 0.2269$



MW-3I, EW PUMPING

Data Set: C:\...\MW-3I-EW_Pump_Test-HJ.aqt

Date: 06/26/11 Time: 15:54:11

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY
Test Well: EW Pump Test
Test Date: 9/7-10/2010

WELL DATA

Pumping Wells Observation Wells

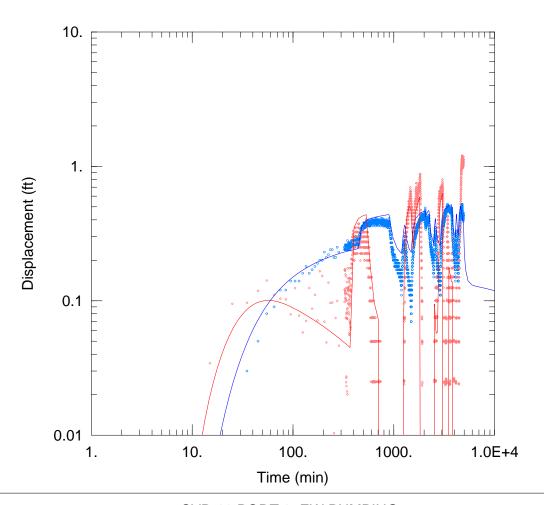
Well Name		X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
GWP-10		2105573	185553	· MW-3I	2107740.05	185546.054
EW-1S	2	105932.021	86070.802	9		
EW-1I	2	105927.5(1	86080.238	3		
EW-1D	2	105923.0(1	86089.350	9		

SOLUTION

Aquifer Model: <u>Leaky</u> Solution Method: <u>Hantush-Jacob</u>

 $T = \frac{4.785E+4}{0.01}$ ft²/day $S = \frac{0.0009827}{0.01}$

r/B = 0.1b = 452. ft



SVP-10 PORT 8, EW PUMPING

Data Set: C:\...\SVP-10-8-EW_Pump_Test-NU.aqt

Date: 06/26/11 Time: 22:24:56

PROJECT INFORMATION

Company: CDM Client: U.S. EPA Project: 3220-023

Location: Garden City, NY Test Well: EW Pump Test Test Date: 9/7-10/2010

AQUIFER DATA

Saturated Thickness: 452. ft

WELL DATA

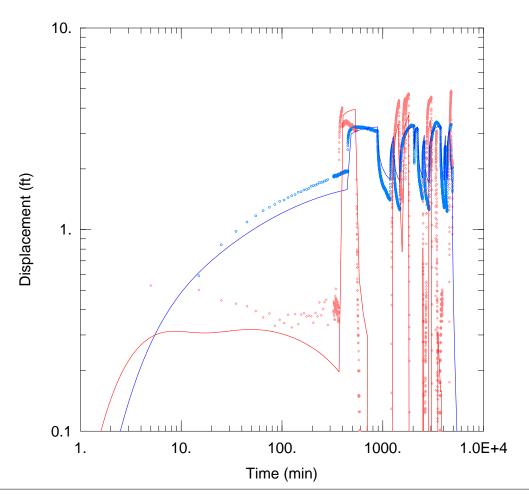
	Pumping wells	Observation vveils				
Well Name	X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10	2105573	185553	∘ SVP-10-8	210	5899.10	186072.675
EW-1S	2105932.021	86070.802	29			
EW-1I	2105927.5(1	86080.238	33			
EW-1D	2105923.0(1	86089.350)9			

SOLUTION

Aquifer Model: Unconfined Solution Method: Neuman

 $T = 2.036E+4 \text{ ft}^2/\text{day}$ S = 0.0003179

Sy = 0.0572 $\beta = \overline{0.01}$



SVP-10 PORT 5, EW PUMPING

Data Set: C:\...\SVP-10-5-EW_Pump_Test-HJ-rev.aqt

Date: 06/26/11 Time: 12:56:20

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY
Test Well: EW Pump Test
Test Date: 9/7-10/2010

WELL DATA

Pumping Wells Observation Wells

Well Name		X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10		2105573	185553	∘ SVP-10-5	2	105899.10	186072.675
EW-1S	2	105932.021	86070.802	9			
EW-1I	2	105927.561	86080.238	3			
EW-1D	2	105923.001	86089.350	9			

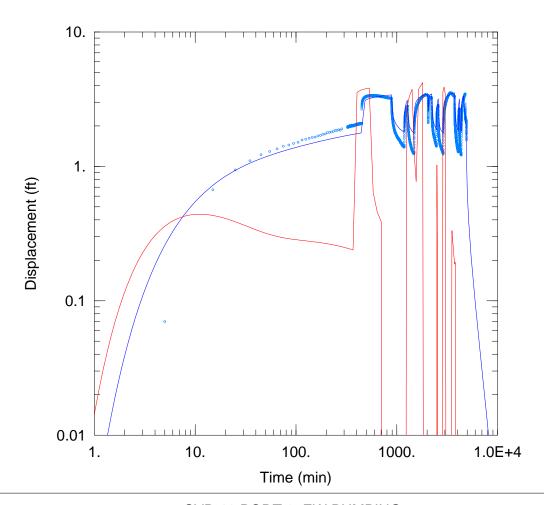
SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = 4.217E+4 ft²/day S = 0.0003005

r/B = 0.0798 Kz/Kr = 0.01

b = 452. ft



SVP-10 PORT 3, EW PUMPING

Data Set: C:\...\SVP-10-3-EW_Pump_Test-HJ.aqt

Date: 06/26/11 Time: 13:06:31

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY
Test Well: EW Pump Test
Test Date: 9/7-10/2010

WELL DATA

Pumping Wells Observation Wells

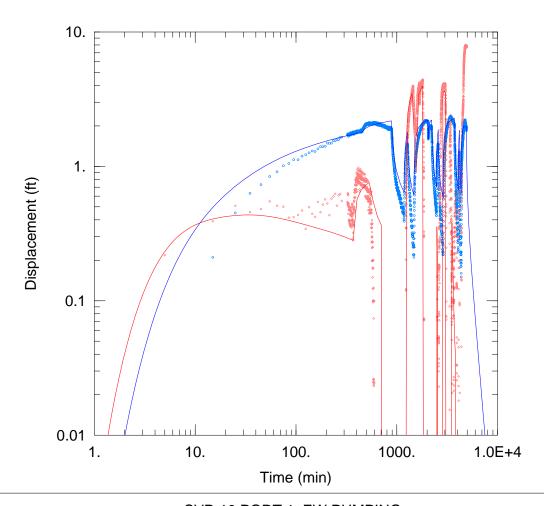
Well Name		X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10		2105573	185553	• SVP-10-3	2	105899.13	86072.675
EW-1S	2	105932.021	86070.802	9			
EW-1I	2	105927.5(1	86080.238	3			
EW-1D	2	105923.001	86089.350	9			

SOLUTION

Aquifer Model: <u>Leaky</u> Solution Method: <u>Hantush-Jacob</u>

T = $\frac{4.926E+4}{0.1}$ ft²/day S = $\frac{0.001319}{Kz/Kr}$ = 0.01

b = $\frac{6.1}{452}$. ft



SVP-10 PORT 1, EW PUMPING

Data Set: C:\...\SVP-10-1-EW_Pump_Test-HJ.aqt

Date: 06/26/11 Time: 15:41:15

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY
Test Well: EW Pump Test
Test Date: 9/7-10/2010

WELL DATA

Pumping Wells

Observation Wells

Y (ft) V (ft) Well Name

Y (ft)

Well Name		X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
GWP-10		2105573	185553	∘ SVP-10-1	2105899.10	186072.675
EW-1S	2	105932.021	86070.802	9		
EW-1I	2	105927.5(1	86080.238	3		
EW-1D	2	105923.001	86089.350	9		

SOLUTION

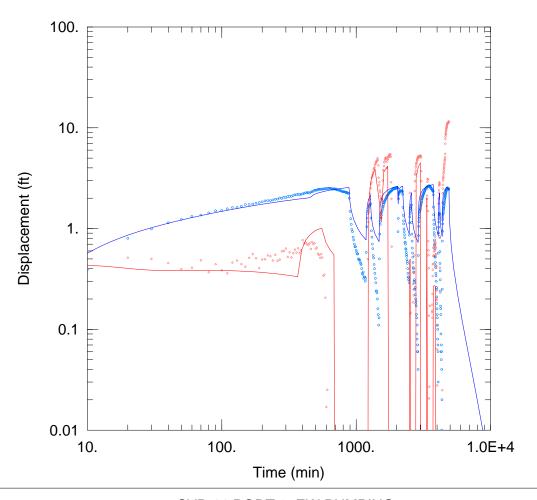
Aquifer Model: Leaky

 $T = 4.133E+4 \text{ ft}^2/\text{day}$

r/B = $\frac{0.1}{452}$. ft

Solution Method: <u>Hantush-Jacob</u>

S = 0.0008352Kz/Kr = 0.01



SVP-11 PORT 2, EW PUMPING

Data Set: C:\...\SVP-11-2-EW_Pump_Test-HJ.aqt

Date: 06/26/11 Time: 12:07:34

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY
Test Well: EW Pump Test
Test Date: 9/7-10/2010

WELL DATA

Pumping	g Wells		
	X (ft)	Y (ft)	Well Name
	2105573	185553	∘ SVP-11-2

vven name	Λ (IL)	1 (11)
GWP-10	2105573	185553
EW-1S 2	105932.021	86070.8029
EW-11 2	105927.5(1	86080.2383
EW-1D 2	105923.001	86089.3509

SOLUTION

Aquifer Model: Leaky

 $= 3.6E + 4 \text{ ft}^2/\text{day}$

r/B = 0.1b = 452. ft

Т

Mall Nama

Solution Method: Hantush-Jacob

Observation Wells

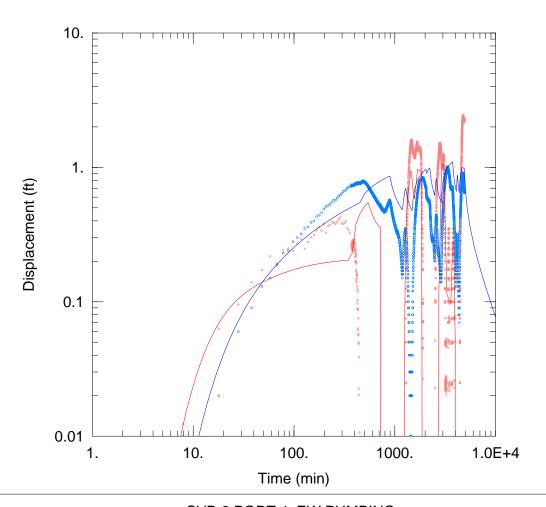
X (ft)

2105597.0(184603.935

Y (ft)

S = 0.0004336

Kz/Kr = 0.01



SVP-2 PORT 4, EW PUMPING

Data Set: C:\...\SVP-2-4-EW_Pump_Test-HJ.aqt

Date: 06/24/11 Time: 16:57:17

PROJECT INFORMATION

Company: CDM Client: U.S. EPA Project: 3220-023

Location: Garden City, NY Test Well: EW Pump Test Test Date: 9/7-10/2010

WELL DATA

Observation Wells Pumping Wells

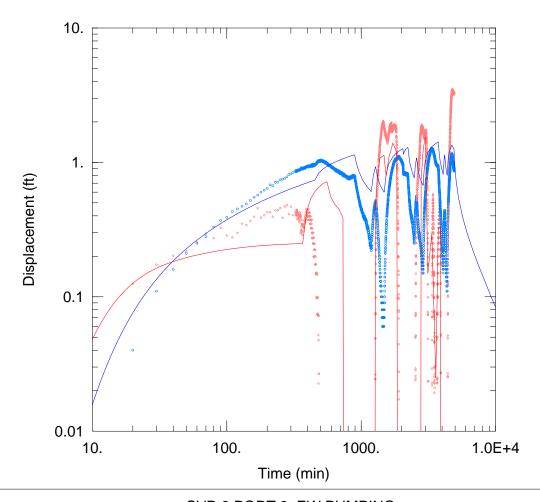
Y (ft)

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
GWP-10	2105573	185553	∘ SVP-2-4	2106214.4{1	87385.723
EW-1S 2	105932.021	86070.8029	9		
EW-11 2	105927.5(1	86080.2383	3		
EW-1D 2	105923.0(1	86089.3509	9		
	•				

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

 $= 6.68E + 4 \text{ ft}^2/\text{day}$ Т = 0.001531= 0.1 $Kz/Kr = \overline{0.01}$ r/B



SVP-3 PORT 3, EW PUMPING

Data Set: C:\...\SVP-3-3-EW_Pump_Test-HJ.aqt

Date: 06/24/11 Time: 23:45:40

PROJECT INFORMATION

Company: CDM Client: U.S. EPA Project: 3220-023

Location: Garden City, NY Test Well: EW Pump Test Test Date: 9/7-10/2010

WELL DATA

Pumping Wells Y (ft) X (ft)

Well Name	X (ft)	Y (ft)	١
GWP-10	2105573	185553	۰
EW-1S 2	105932.021	86070.802	9_
EW-1I 2	105927.5(1	86080.238	3
EW-1D 2	105923.0(1	86089.350	9

Well Name X (ft) Y (ft) SVP-3-3 2106542.34186966.005

Observation Wells

SOLUTION

Aquifer Model: Leaky

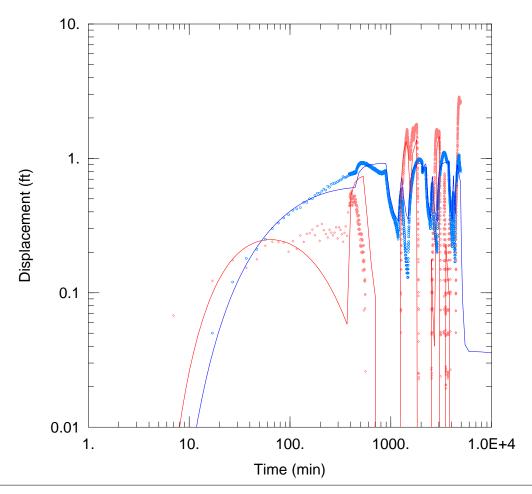
 $= 5.543E+4 \text{ ft}^2/\text{day}$

= 0.1r/B = 452. ft b

Т

Solution Method: Hantush-Jacob

= 0.001375Kz/Kr = 0.01



SVP-4 PORT 6, EW PUMPING

Data Set: C:\...\SVP-4-6-EW_Pump_Test-NU.aqt

Date: 06/26/11 Time: 17:03:18

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY
Test Well: EW Pump Test
Test Date: 9/7-10/2010

AQUIFER DATA

Saturated Thickness: 452. ft

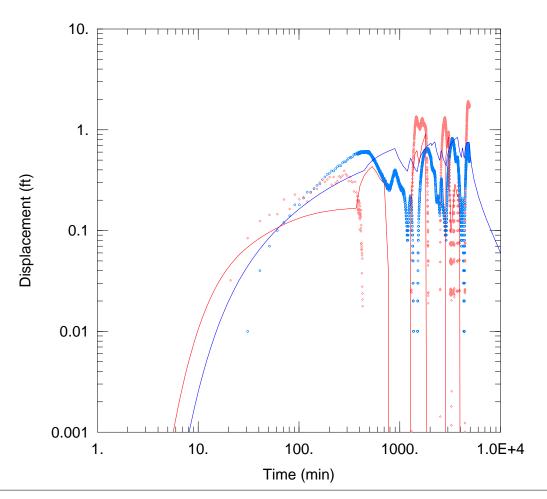
WELL DATA

Pumping Wells				Observation Wells			
Well Name	X	(ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10	210	5573 18	35553	∘ SVP-4-6	2	105820.7(1	86882.689
EW-1S	21059	32.021860	70.802	9			
EW-1I	21059	27.5(1860	080.238	3			
FW-1D	21059	23.0:1860	89.3509	9			

SOLUTION

Aquifer Model: <u>Unconfined</u> Solution Method: <u>Neuman</u>

 $T = 1.813E+4 \text{ ft}^2/\text{day}$ S = 0.0008573Sy = 0.5 S = 0.3149



SVP-9 PORT 5, EW PUMPING

Data Set: C:\...\SVP-9-5-EW_Pump_Test.-HJaqt.aqt

Date: 06/26/11 Time: 11:58:54

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY
Test Well: EW Pump Test
Test Date: 9/7-10/2010

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
GWP-10	2105573	185553	∘ SVP-9-5	2105956.70	6187687.257
EW-1S	2105932.021	86070.8029	9		
EW-1I	2105927.5(1	86080.2383	3		
EW-1D	2105923.03	86089.3509	9		

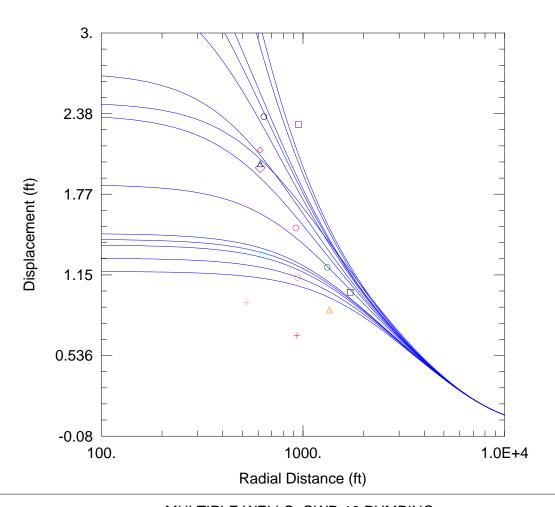
SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = 8.243E+4 ft²/day S = 0.001421 Kz/Kr = 0.01

b = 0.1b = 452. ft

Appendix I GWP-10 Pumping Well Data Analyses



MULTIPLE WELLS, GWP-10 PUMPING

Data Set: C:\...\Distance_Drawdown_All-Points_GWP-10_Pumping-HJ.aqt

Date: 06/22/11 Time: 13:11:03

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10
Test Date: 9/7/2010

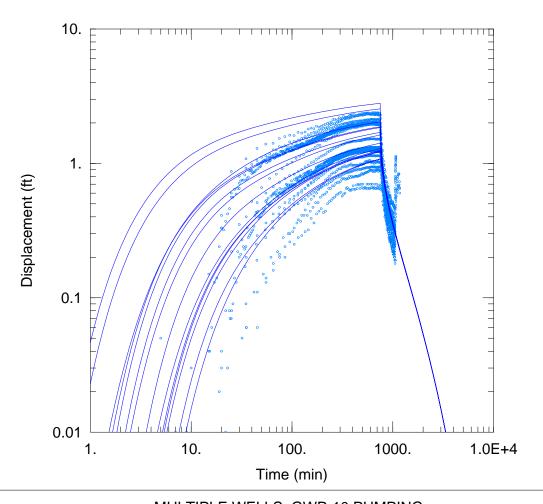
WELL DATA

 Pumping Wells

 Well Name
 X (ft)
 Y (ft)

 GWP-10
 2105573
 185553

Observation Wells							
Well Name	X (ft) Y (ft)						
○ EW-1D	2105923.0(186089.350						
○ EW-1I	2105927.5(186080.238						
○ EW-1S	2105932.0186070.802						
+ GWX-10019	2105876.5{185981.259						
+ GWX-10020	2106480.13185775.45						
o MW-1S	2106106.4(186328.080						
○ MW-1I	2106083.14186321.746						
○ MW-2I	2106564.0(186423.590						
□ SVP-3-3	2106542.34186966.005						
△ SVP-4-6	2105820.7(186882.689						
♦ SVP-10-1	2105899.1(186072.675						
◇ SVP-10-3	2105899.1(186072.675						
△ SVP-10-5	2105899.1(186072.675						
□ C\/D 11 2	2105507 0/194602 025						



MULTIPLE WELLS, GWP-10 PUMPING

Data Set: C:\...\Multiple_Wells_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 22:54:07

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

Well Name

GWP-10

WELL DATA

• SVP-10-5

Pumping Wells

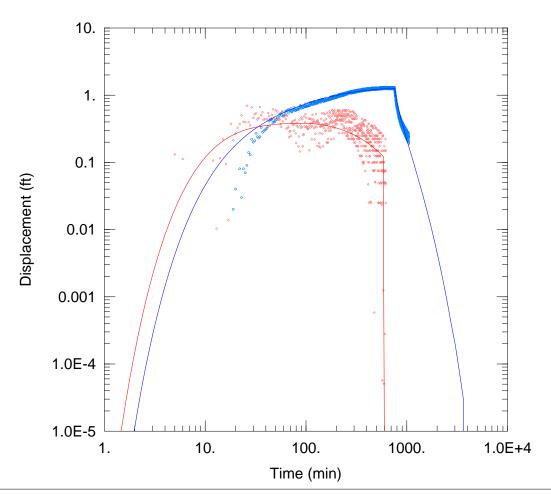
X (ft) Y (ft)

2105573 185553

Well Name	X (ft)	Y (ft)
• EW-1D 2	105923.0(1	86089.350
• EW-1I 2	105927.5(1	86080.238
• EW-1S 2	105932.021	86070.802
• GWX-10019 2	105876.5{1	85981.2593
· GWX-10020 2	106480.13°	185775.454
• MW-1S 2	106106.4(1	86328.080
• MW-1I 2	106083.141	86321.746
• MW-2I	106564.0(1	86423.590
→ SVP-3-3	106542.341	86966.005
· SVP-4-6	105820.7(1	86882.689
· SVP-10-1 2	105899.1(1	86072.675
· SVP-10-3	105899.1(1	86072.675

2105899.1(186072.675

Observation Wells



EW-1S, GWP-10 PUMPING

Data Set: C:\...\EW-1S_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 22:10:09

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: <u>GWP-10</u> Test Date: <u>9/7/2010</u>

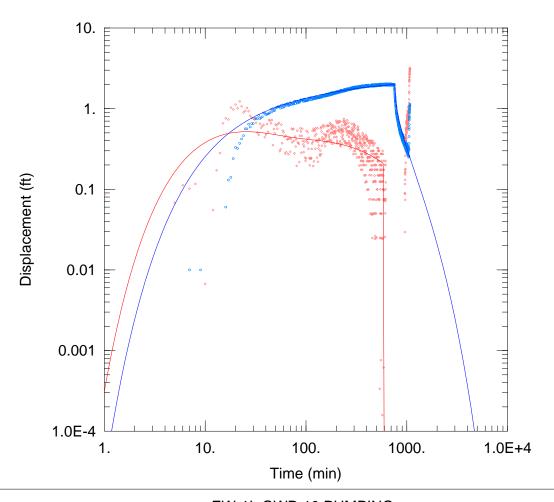
WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10	2105573	185553	• EW-1S	2	105932.021	86070.802

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{2.618E+4}{0.1958}$ ft²/day S = $\frac{0.000658}{0.01}$ Kz/Kr = $\frac{0.01}{0.01}$



EW-11, GWP-10 PUMPING

Data Set: C:\...\EW-1I_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 22:02:25

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

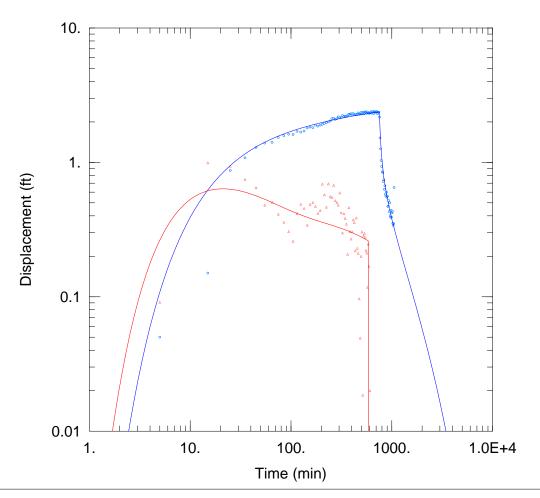
WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10	2105573	185553	∘ EW-1I	2	105927.5(1	86080.238

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{2.856E+4}{0.1756}$ ft²/day S = $\frac{0.000949}{0.01}$ Kz/Kr = $\frac{0.01}{0.01}$



EW-1D, GWP-10 PUMPING

Data Set: C:\...\EW-1D_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 21:59:42

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

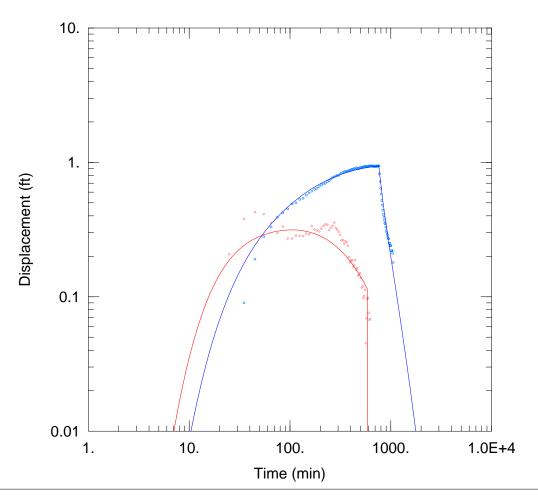
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
GWP-10	2105573	185553	∘ EW-1D	2105923.0(1	86089.350

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{3.736E+4}{0.1682}$ ft²/day S = $\frac{0.002363}{0.01}$ Kz/Kr = $\frac{0.01}{0.01}$



GWX-10019, GWP-10 PUMPING

Data Set: C:\...\GWX-10019-GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 22:12:26

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

WELL DATA

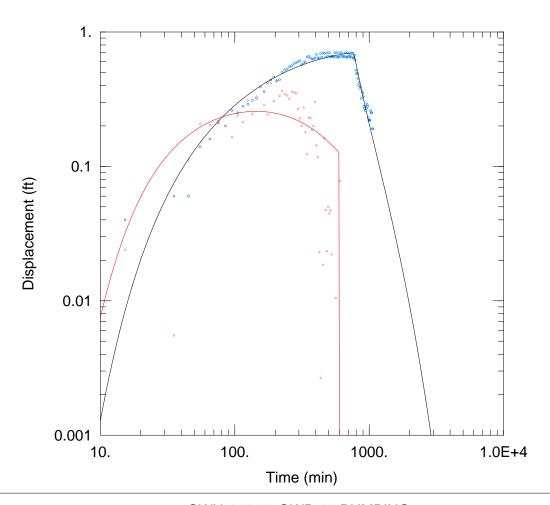
Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
GWP-10	2105573	185553	∘ GWX-10019	2105876.58	85981.259

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{2.968E+4}{r/B}$ ft²/day S = $\frac{0.0009774}{6.01}$ Kz/Kr = $\frac{0.01}{6.01}$

 $b = \frac{6.7661}{452. \text{ ft}}$



GWX-10020, GWP-10 PUMPING

Data Set: C:\...\GWX-10020-GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 22:13:37

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: <u>GWP-10</u> Test Date: <u>9/7/2010</u>

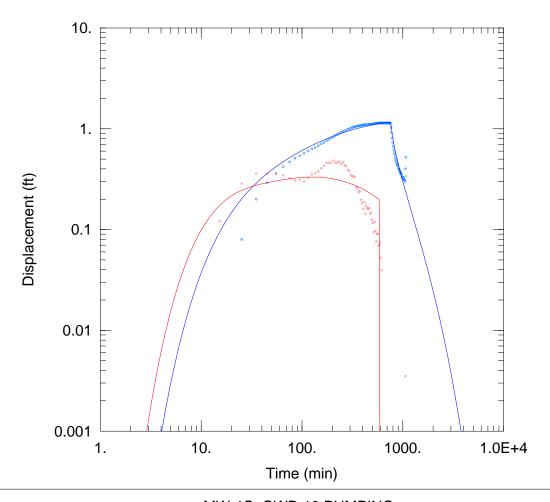
WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)	
GWP-10	2105573	185553	∘ GWX-10020	2106480.13	185775.454	

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{3.688E+4}{0.2764}$ ft²/day S = $\frac{0.00114}{0.01}$ Kz/Kr = $\frac{0.00114}{0.01}$



MW-1S, GWP-10 PUMPING

Data Set: C:\...\MW-1S_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 22:29:38

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10
Test Date: 9/7/2010

WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)	
GWP-10	2105573	185553	 MW-1S 	2106106.4(1	86328.080	

SOLUTION

Aquifer Model: Leaky

= 3.447E+4 ft²/day

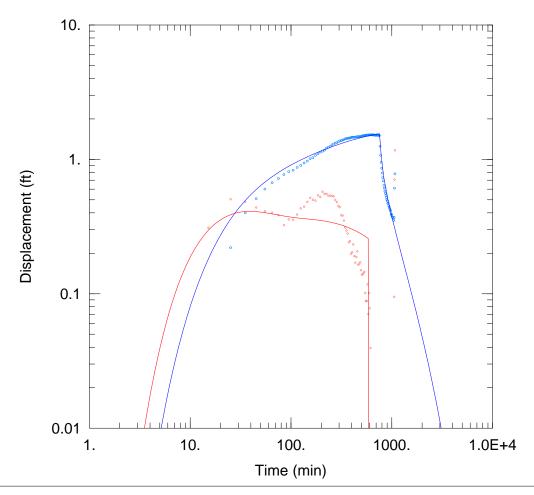
r/B = 0.1967b = 452. ft

Т

Solution Method: Hantush-Jacob

S = 0.0007684

 $Kz/Kr = \overline{0.01}$



MW-1I, GWP-10 PUMPING

Data Set: C:\...\MW-1I_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 22:21:26

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

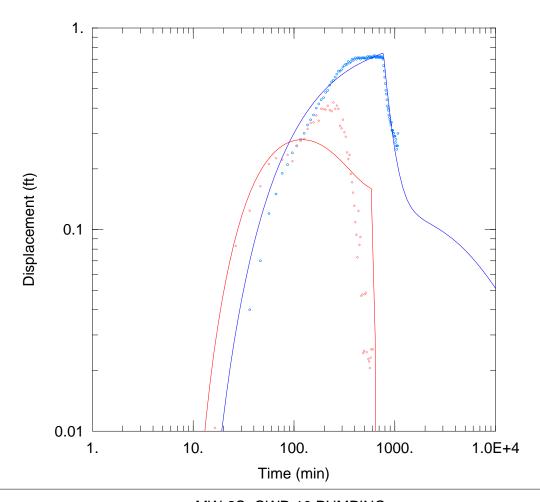
WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10	2105573	185553	• MW-1I	2	106083.141	86321.746

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{3.327E+4}{0.2179}$ ft²/day S = $\frac{0.001356}{0.01}$ Kz/Kr = $\frac{0.01}{0.01}$



MW-2S, GWP-10 PUMPING

Data Set: C:\...\MW-2S_GWP-10_Pumping-NU.aqt

Date: 06/26/11 Time: 22:41:19

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

AQUIFER DATA

Saturated Thickness: 452. ft

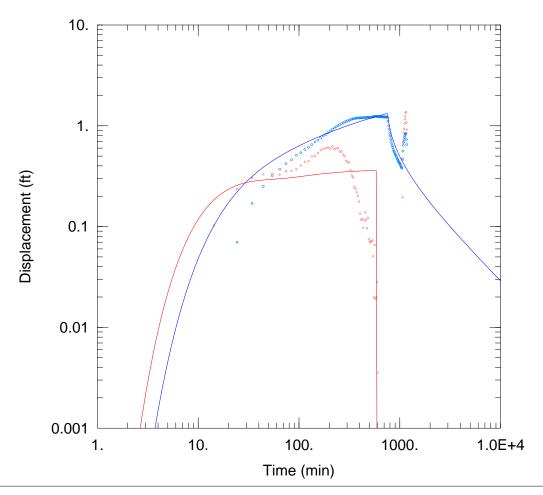
WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)	
GWP-10	2105573	185553	MW-2S	2106577.52	186411.52	

SOLUTION

Aquifer Model: Unconfined Solution Method: Neuman

 $T = 1.877E+4 \text{ ft}^2/\text{day}$ S = 0.001625Sy = 0.02032 S = 0.3207



MW-2I, GWP-10 PUMPING

Data Set: C:\...\MW-2I_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 22:35:15

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10	2105573	185553	• MW-2I	2	106564.0(1	86423.590

SOLUTION

Aquifer Model: Leaky

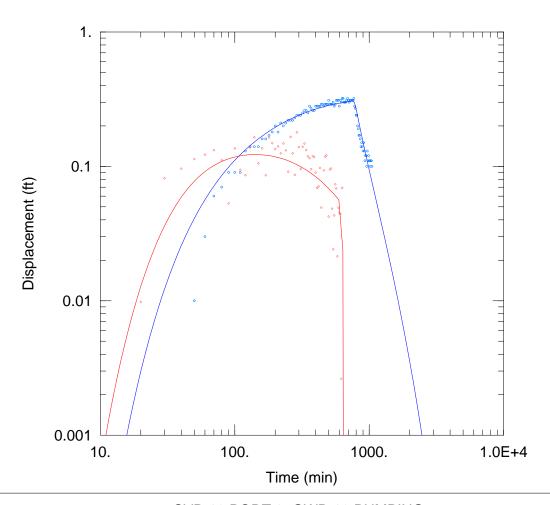
 $= 4.122E+4 \text{ ft}^2/\text{day}$

r/B = 1.0E-5b = 452. ft

Т

Solution Method: Hantush-Jacob

S = 0.001159Kz/Kr = 0.01



SVP-10 PORT 8, GWP-10 PUMPING

Data Set: C:\...\SVP-10-8_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 23:50:20

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: <u>GWP-10</u> Test Date: <u>9/7/2010</u>

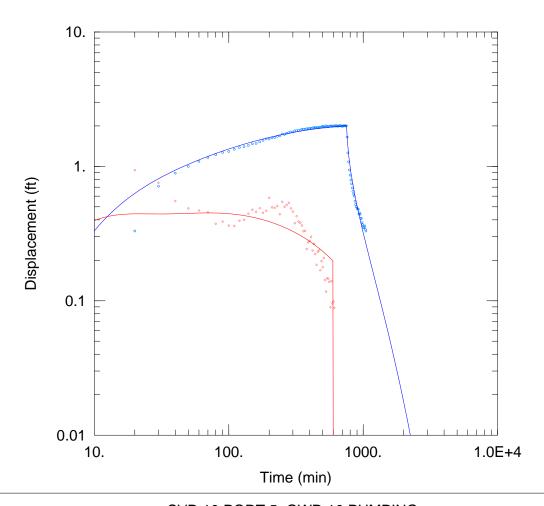
WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)	
GWP-10	2105573	185553	• SVP-10-8	2105899.10	186072.675	

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{7.719E+4}{0.1866}$ ft²/day S = $\frac{0.002353}{0.01}$ Kz/Kr = $\frac{0.01}{0.01}$



SVP-10 PORT 5, GWP-10 PUMPING

Data Set: C:\...\SVP-10-5_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 23:34:46

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

WELL DATA

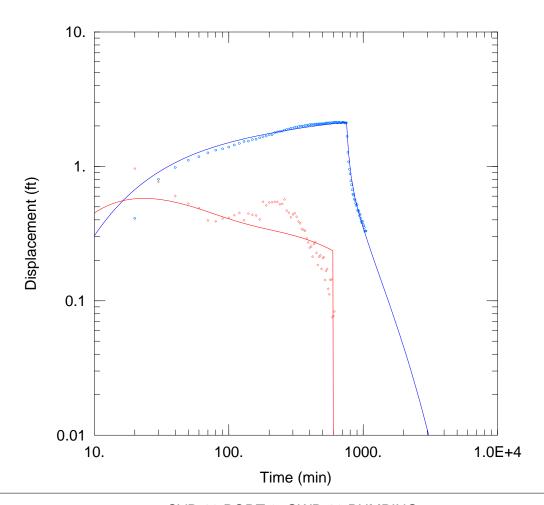
Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)	
GWP-10	2105573	185553	∘ SVP-10-5	2105899.13	186072.675	

SOLUTION

Aquifer Model: <u>Leaky</u> Solution Method: <u>Hantush-Jacob</u>

 $T = \frac{2.756E+4}{2.115(1+4)} \text{ ft}^2/\text{day}$ $S = \frac{0.0003925}{2.215(1+4)} \text{ ft}^2/\text{day}$

r/B = 0.1154b = 452. ft Kz/Kr = 0.01



SVP-10 PORT 3, GWP-10 PUMPING

Data Set: C:\...\SVP-10-3_GWP-10_Pumping_HJ.aqt

Date: 06/21/11 Time: 23:32:55

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

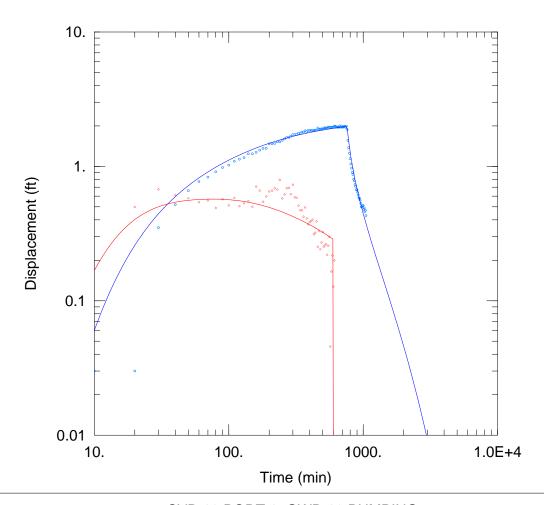
WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)	
GWP-10	2105573	185553	∘ SVP-10-3	2105899.10	186072.675	

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{3.702E+4}{0.1705}$ ft²/day S = $\frac{0.002155}{0.01}$ Kz/Kr = $\frac{0.01}{0.01}$



SVP-10 PORT 1, GWP-10 PUMPING

Data Set: C:\...\SVP-10-1_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 23:30:53

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: <u>GWP-10</u> Test Date: <u>9/7/2010</u>

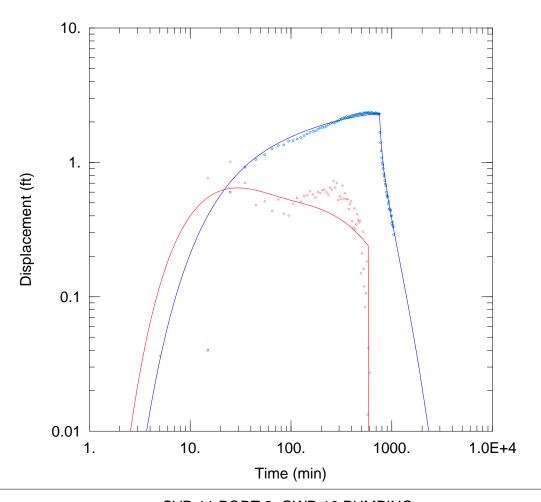
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
GWP-10	2105573	185553	• SVP-10-1	2105899.10	86072.675

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{2.818E+4}{0.1966}$ ft²/day S = $\frac{0.001847}{0.01}$ Kz/Kr = $\frac{0.01}{0.01}$



SVP-11 PORT 2, GWP-10 PUMPING

Data Set: C:\...\SVP-11-2_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 23:57:44

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY Test Well: SVP-11-2

Test Well: <u>SVP-11-2</u> Test Date: <u>9/7/2010</u>

WELL DATA

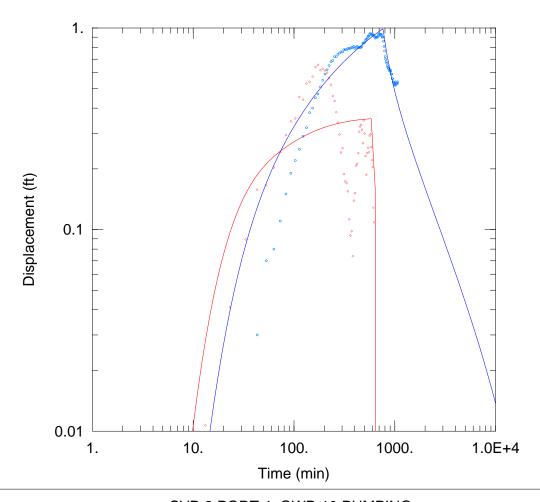
Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)	
GWP-10	2105573	185553	∘ SVP-11-2	2105597.03	184603.935	

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{2.28E+4}{0.0045}$ ft²/day S = $\frac{0.0008816}{0.0045}$

r/B = 0.2945b = 452. ft Kz/Kr = 0.01



SVP-2 PORT 4, GWP-10 PUMPING

Data Set: C:\...\SVP-2-4_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 23:03:04

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

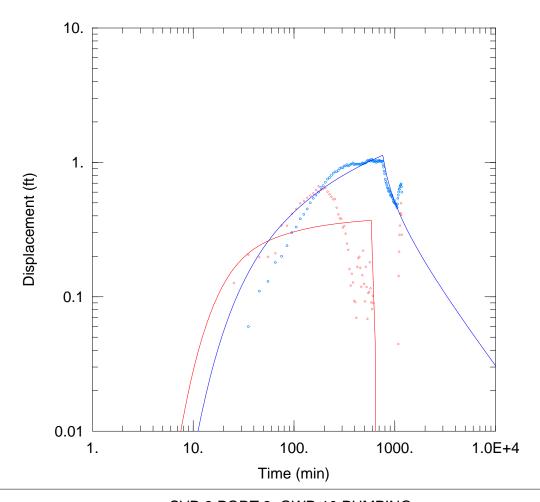
WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10	2105573	185553	∘ SVP-2-4	2	106214.4{1	87385.723

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{3.788E+4}{0.1276}$ ft²/day S = $\frac{0.001325}{0.01}$ Kz/Kr = $\frac{0.01}{0.01}$



SVP-3 PORT 3, GWP-10 PUMPING

Data Set: C:\...\SVP-3-3_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 23:06:12

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

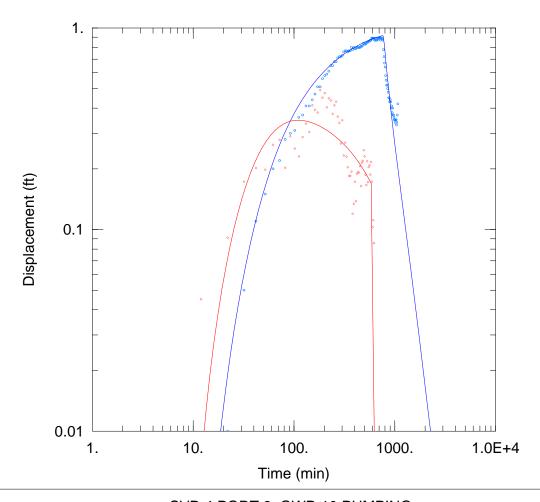
WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)	
GWP-10	2105573	185553	∘ SVP-3-3	2106542.34	186966.005	

SOLUTION

Aquifer Model: Leaky Solution Method: Hantush-Jacob

T = $\frac{3.881E+4}{1.0E-5}$ ft²/day S = $\frac{0.001368}{Kz/Kr}$ Kz/Kr = $\frac{0.01}{0.01}$



SVP-4 PORT 6, GWP-10 PUMPING

Data Set: C:\...\SVP-4-6_GWP-10_Pumping-NU.aqt

Date: 06/26/11 Time: 22:49:30

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: GWP-10 Test Date: 9/7/2010

AQUIFER DATA

Saturated Thickness: 452. ft

WELL DATA

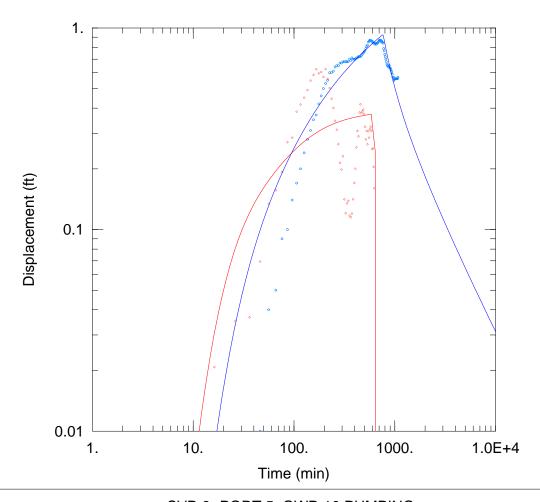
Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
GWP-10	2105573	185553	∘ SVP-4-6	2105820.76	186882.689

SOLUTION

Aquifer Model: Unconfined Solution Method: Neuman

 $T = 2.06E+4 \text{ ft}^2/\text{day}$ S = 0.001062

 $Sy = \overline{0.5}$ $\beta = \overline{0.1}$



SVP-9- PORT 5, GWP-10 PUMPING

Data Set: C:\...\SVP-9-5_GWP-10_Pumping-HJ.aqt

Date: 06/21/11 Time: 23:27:28

PROJECT INFORMATION

Company: <u>CDM</u> Client: <u>U.S. EPA</u> Project: 3220-023

Location: Garden City, NY

Test Well: <u>GWP-10</u> Test Date: <u>9/7/2010</u>

WELL DATA

Pumping Wells			Observation Wells			
Well Name	X (ft)	Y (ft)	Well Name		X (ft)	Y (ft)
GWP-10	2105573	185553	∘ SVP-9-5	21	05956.76	187687.257

SOLUTION

Aquifer Model: <u>Leaky</u> Solution Method: <u>Hantush-Jacob</u>

T = $\frac{3.814E+4}{4.05}$ ft²/day S = $\frac{0.0009566}{2.04}$

r/B = 1.0E-5b = 452. ft

Appendix J

Simulation of Aquifer Test and Model Refinement Memorandum



Memorandum

To: Project File

From: Dan O'Rourke, Karilyn Heisen and Bob Fitzgerald

Date: April 13, 2011

Subject: Old Roosevelt Field: Simulation of Aguifer Test and Model Refinement

The 72-hour aquifer test that was conducted at the Old Roosevelt Field (ORF) site in Garden City, New York between September 7-10, 2010 was simulated using the ORF groundwater model (CDM, 2007, 2008). The purpose of the simulation was to check the model's response against groundwater head data collected during the aquifer test. The ORF groundwater model was previously calibrated to measured groundwater head data collected in April and July 2006 and was used to evaluate various alternatives for the Feasibility Study (FS). The development of the groundwater model was documented in a technical memorandum dated August 13, 2007, which also serves as Appendix A of the Feasibility Study (FS).

The Record of Decision (ROD) calls for a pump and treat system to remediate a portion of the TCE and PCE plume upgradient of the existing community water supply wells owned and operated by Garden City Water District (Wells 10 and 11). In 2008, the ORF groundwater model was used to site an extraction well system to capture the 100 ppb portion of the plume, while minimizing impacts to head at the Garden City wells, while siting the wells within the property constraints at the time (e.g., within the parking lot). Due to the thickness of the plume, a three well system was recommended, consisting of 50-60 foot screen intervals and spanning a depth from 210 to 410 feet below grade. The total extraction rate was simulated at 250 gpm in which 70 gpm was pumped from the shallow and intermediate wells and 110 gpm was pumped from the deep recovery well.

In the summer of 2010, the extraction well system was installed and an aquifer test was conducted. In addition to the installation of the extraction wells, additional multi-port monitoring wells were installed since the last round of groundwater modeling. Two of these wells were installed within the immediate vicinity of the aquifer test and Garden City supply wells, SVP-10 (located immediately adjacent to the extraction wells) and SVP-11 (just downgradient of the Garden City supply wells). Groundwater head data were collected at these and several other wells within the vicinity (**Figure 1**, **Table 1**).

Table 1
Wells Monitored for Groundwater Head during 72 Hour Aquifer Test

Monitoring Well	Intervals Monitored (depth, ft)
SVP-02	Port 4 (330-335)
SVP-03	Port 3 (370-375)
SVP-04	Port 6 (245-250)
SVP-09	Port 5 (285-290)
SVP-10	Port 1 (480-485), Port 3 (350-355), Port 5 (285-
3VP-10	290), Port 8 (145-150), Port 10 (45-50)
SVP-11	Port 2 (400-405)
MW-01	MW-01i (305-315), MW-01s (235-245)
MW-02	MW-02i (306-316), MW-02s (236-246)
MW-03	MW-03i (304-314), MW-03s (234-244)
N-10019	223-228
N-10020	186-191
EW-01	EW-01d (350-410), EW-01i (280-340),
(extraction well)	EW-01s (210-260)

Reference:

Average surface elevation from wells listed above (and Garden City Supply Wells) = 86.6 ft, msl Garden City Well 10 screen interval = 377-417 feet below grade Garden City Well 11 screen interval = 370-410 feet below grade

Groundwater Model Simulations

Supply Well Pumping Rates

The objective of the groundwater model simulations was to reproduce observed changes in head from the aquifer test at the various monitoring points. Although actual groundwater supply pumping data was collected at several times for Garden City Well 11 (N-03935) during the aquifer test, it was only estimated at Well 10, as the flow meter was not functional for that well. Estimates were made based on personal communication with the operators from Garden City and operation durations were assumed based on head responses during the test. Well 11 was pumping continuously throughout the duration of the test while Well 10 was generally operated from the early morning hours into the midafternoon and again for a brief period in the late evening.

There are numerous groundwater supply wells that surround the site operated by several different water purveyors. Detailed (hourly) pumping data were not available for those wells during the aquifer test. Regional groundwater supply pumping rates were also not available for 2010 at the time of this analysis.

Since 2010 groundwater pumpage data were not available for all wells, the transient groundwater model utilized for the FS and the subsequent design was used for the aquifer test analysis (average pumping and recharge from 2002-2007). Although average pumping and recharge conditions were used regionally, pumping at Garden City wells 10 and 11 was updated to observed conditions during the aquifer test (including pre and post test). However, because average conditions were used

Project File April 13, 2011 Page 3

regionally, the actual groundwater head data collected from the monitoring wells was not a calibration target. Rather, the calibration target was observed change in head, which in a sense is independent of actual head (e.g., if a 2 foot decrease in head in a well is observed with starting head at 53 feet, msl and a 2 foot head decline is simulated at a starting head of 55 ft, msl, the model is accurately simulating the aquifer's response to the pumping stress).

Time steps prior, during and after the pump test were reduced to 30 minutes. The pump test was initiated at 10:30 AM on 9/7/2010 and ended on 9/10/2010 at 10:30 AM. The model simulation was run from 12:00 AM on 9/5/2010 until 9/11/2010. Although the actual aquifer test from EW-01 was run for a 72 hour period, groundwater head within the study area is strongly influenced by the operation of the Garden City supply wells. Therefore, evaluating observed head prior to the start of the aquifer test and comparing that to simulated values is essentially a shorter term, cyclic aquifer test.

Stratigraphic Adjustments

Stratigraphy was adjusted to include a coarser zone within the middle Magothy, based on a gamma logging conducted at SVP-10 and a boring log that was developed from split spoon samples collected from the test well installation (**Figures 2 and 3**). With the additional data, correlations with previously collected boring logs enables the vertical extent of this zone to be somewhat defined, although the western extent is unknown due to a lack of geologic data west of Clinton Road. The hydrogeologic properties within the model were adjusted within the study area. A summary of hydrogeologic changes is summarized on **Table 2**.

Simulation Results

Model simulation results are shown on **Figures 4-12** (ordered in general proximity to EW-01 with SVP-10 being the closest and SVP-11 the furthest). The figures are displayed so that the initial response using the calibrated model from the FS is at the top of the figure, followed by two versions of hydraulic conductivity of the sandy zone which was incorporated into the model.

The initial focus of the model calibration was to SVP-10, as this well had numerous ports which were frequently monitored using pressure transducers and is closest to the extraction well (**Figures 4a,4b**). As shown on **Figures 4a and 4b**, the model simulates too much head decline in most of the observed ports using the original hydrogeologic properties from the calibrated model. The model provides a very close match to observed groundwater head in port 5 prior to the aquifer test, but simulates too much decrease in head in that port during the aquifer test. The model simulated too much head decline in all other ports both prior to and during the aquifer test.

In order to address the excessive simulated head decline, the sandy zone that was incorporated into the model was coarsened, as well as some other adjustments (see figures). The middle and bottom set of figures show two versions of this zone, one with a horizontal conductivity (Kh) of 80 ft/day (middle) and one with a relative very high Kh for the Magothy aquifer of 180 ft/day (bottom). Note

Table 2
Wells Monitored for Groundwater Head during 72 Hour Aquifer Test

Hydrogeologic Param		Original (FS model)	Adjusted	
Upper Magothy	Kh (ft/day)	35	60	
	Kv (ft/day)	0.6	0.6	
	Sy	0.25	0.15	
	Ss (ft ⁻¹)	1 x 10 ⁻⁶	2 x 10 ⁻⁶	
Middle Magothy	Kh (ft/day)	40	40	
	Kv (ft/day)	0.7	0.7	
	Sy	0.25	0.15	
	Ss (ft ⁻¹)	1 x 10 ⁻⁶	2 x 10 ⁻⁶	
Middle Magothy	Kh (ft/day)		$80 - 180^1$	
	Kv (ft/day)	N/A	2.0	
(coarse zone)	Sy	IN/A	0.15	
	Ss (ft ⁻¹)		2 x 10 ⁻⁶	
	Kh (ft/day)	60	80	
Basal Magothy	Kv (ft/day)	1.2	1.2	
Dasai Magothy	Sy	0.25	0.15	
	Ss (ft ⁻¹)	1 x 10 ⁻⁶	2 x 10 ⁻⁶	
	Kh (ft/day)	0.3	0.3	
Raritan Clay	Kv (ft/day)	8 x 10 ⁻⁴	1 x 10 ⁻⁴	
Natitali Clay	Sy	0.25	0.25	
	Ss (ft ⁻¹)	1 x 10 ⁻⁵	1 x 10 ⁻⁵	

Note: two simulations were utilized in this evaluation, one using 80 ft/day for the coarser zone and a second using 180 ft/day. Kh = horizontal hydraulic conductivity and Kv = vertical hydraulic conductivity.

that the very high conductivity of 180 ft/day appears to provide the closest match to observed head for all ports of SVP-10, although the simulated response in ports 1 and 5 are better during the background period using a Kh of 80 ft/day.

The results of the aquifer test revealed a complex sequence in which changes in hydraulic conductivity did not have the same effect prior to and during the aquifer test. This is evident by the simulated response of port 5 in SVP-10. In order to match the observed head decline during the aquifer test, the sandy zone within the middle Magothy had to be coarsened to represent a simulated horizontal hydraulic conductivity of 180 ft/day. However, in doing that, the difference between the simulated head change and observed head change during the background period was somewhat increased. Furthermore, the Magothy aquifer generally fines upwards, in which the coarsest zone is within the basal Magothy, representing a high energy environment of deposition. Although it is certainly possible for a coarser zone to be within the middle Magothy, having that zone be more than double the Kh of the basal Magothy is questionable (nor is a coarse sand or gravelly zone noted in the boring logs, but rather fine to medium sand). Furthermore, having this very high horizontal conductivity zone doesn't seem to have a significant improvement on heads at most of the other monitoring wells included in

Project File April 13, 2011 Page 5

this analysis. Nevertheless, in order to match the head decline at SVP-10, a relatively very high hydraulic conductivity is required in the model. It is quite possible that this zone is very localized and although a more sandy zone appears to extend throughout the area in the middle Magothy, the hydraulic conductivity of this zone throughout the study area may in fact be closer to the 40-80 ft/day as shown in the top and middle figures. In general, although the higher Kh of 180 ft/d provides a better match to observed data at SVP-10, in some cases there is no significant difference in simulated response between the three variations (particularly for those monitoring points which are further away from the wells).

The head response in other monitoring wells is dominated by the operation of Garden City water supply Well 10 and head responses to the extraction well are masked by its operation. Therefore, the model head responses from surrounding monitoring wells focused on the pre-test pumping period (**Figures 5-12**). Due to the significant influence from the Garden City supply wells, the model target was focused on the pre-test period for wells other than SVP-10.

Further complicating the aquifer test is an interesting phenomenon that is apparent with several of the monitored wells in which the simulated head response prior to the aquifer test is in very good agreement with observed head, but somewhat off during the aquifer test. In many instances, the observed head slowly increases and then increases rapidly (this rapid increase is assumed to be due to Well 10 turning off). It is possible that this initial slow increase is in response to a lower pumping rate at Well 10, which is not reflected in the model. When this initial response is not included in the analysis and simulated head change is measured from a later time (when head is similar to the start of the aquifer test, approximately 5 hours after the start of the test), the simulated response is in much better agreement to the observed response. An example of this is shown on **Figure 13** for SVP-04, for the condition in which the sandy zone incorporated into the middle Magothy has a horizontal hydraulic conductivity of 80 ft/d. Head at SVP-04 was monitored from Port 6, which is above the newly incorporated sandy zone.

Discussion

The aquifer test at the Old Roosevelt Field site involved a significant amount of complexity in which heads were strongly influenced by the municipal supply wells. The extent to which heads were influenced by other wells (other than Garden City wells 10 and 11 and the extraction well), is somewhat unclear, particularly to wells that are further from the extraction well and the two Garden City wells. For example, as shown on **Figure 11**, the simulated and observed head changes for port 5 in SVP-09 indicate a reasonable match between simulated and observed head changes during the first cycle of the background period, however, the observed decrease in head is much higher than simulated during the early morning hours of 9/7/10. It is possible that surrounding water supply wells (non-Garden City) are influencing head in SVP-09 since additional head decline is observed. Surrounding wells may have been pumped at capacity for a period of time and these increased pumping rates at non-Garden City wells are not included in the model as pumping rates and duration data were not available. Further supporting this possibility is the sharp increase in head at the start of

Project File April 13, 2011 Page 6

the aquifer test, which may be an indication of one or more of these surrounding wells being shut down.

A calibration check was also conducted, comparing simulations run under the various hydraulic conductivities to observed head in April and July of 2006. For most observation wells, a better match between simulated and observed head was observed with an increase in the transmissivity of the middle portion of the Magothy aquifer. However, the extent to which this increase exists and to what degree remains uncertain. However, model simulations show a reasonable correlation with observed head change at several wells by increasing the horizontal hydraulic conductivity in a sandy zone to 80 ft/d.

Only a few monitoring points show a better correlation with observed head decline using a much higher horizontal hydraulic conductivity of 180 ft/day. There was no significant difference in simulated vs observed head between the original model and incorporating this much more transmissive zone, likely due to the somewhat limited extent to which the sandy zone was incorporated and the regional influence on groundwater head. Overall, however, simulated heads at the SVP wells were in somewhat better agreement with observed heads from the original calibration period (April and July 2006) by incorporating the coarser sandy zone within the middle Magothy.

The simulated 15 year groundwater contributing areas to EW-01 are shown on **Figures 14-16** for the original FS model properties as well as the two variations in the sandy zone which was incorporated during this analysis. Simulated pumping rates are 70 gpm in the shallow and intermediate extraction wells and 110 gpm in the deep extraction well, totaling 250 gpm. The simulated capture zone using the higher Kh for the sandy portion of the middle Magothy is somewhat more narrow than the other capture zones and extends slightly further north.

It's important to note that the original design and pumping rates were based on the areal and vertical extent of the TCE/PCE plumes in 2007. It is recommended that an updated plume extent be developed and pumping rates modified accordingly. Should the plume be much deeper than originally depicted, a deeper recovery well may be necessary to achieve capture. In addition, should there no longer be a significant shallow portion of the plume, it's possible that the shallow well may not be needed. **Figure 17** shows the simulated capture zones resulting from pumping the intermediate and deep extraction wells only, at 125 gpm each, respectively. As shown on the figure, a larger portion of the three zones is captured by these two wells. However, if a shallow portion of the plume still exists, then the shallow extraction well will be necessary.

cc: J. Dougherty (CDM)



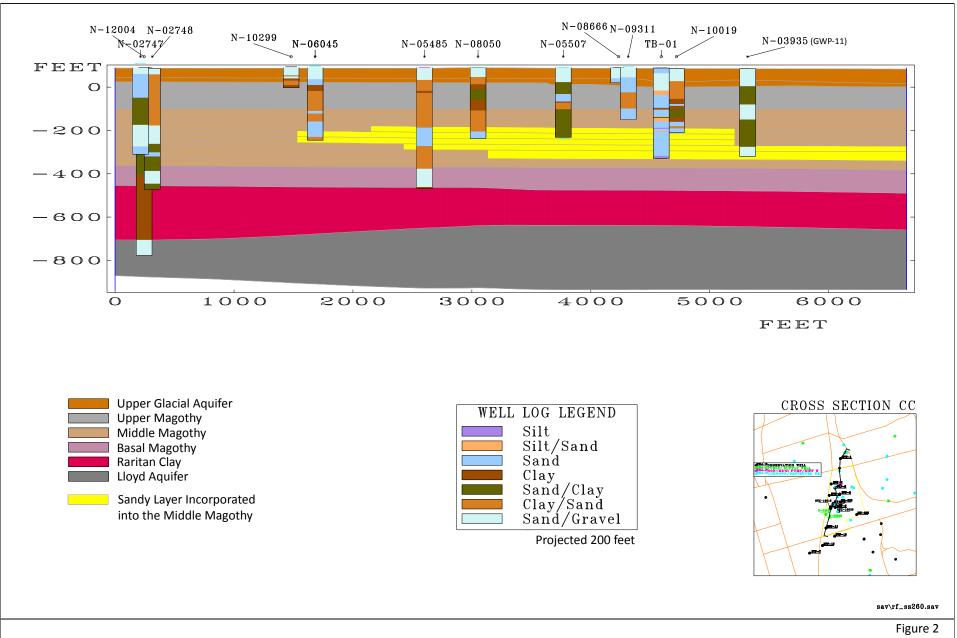


Figure 2 Old Roosevelt Field Groundwater Model Northeast-Southwest Cross Section



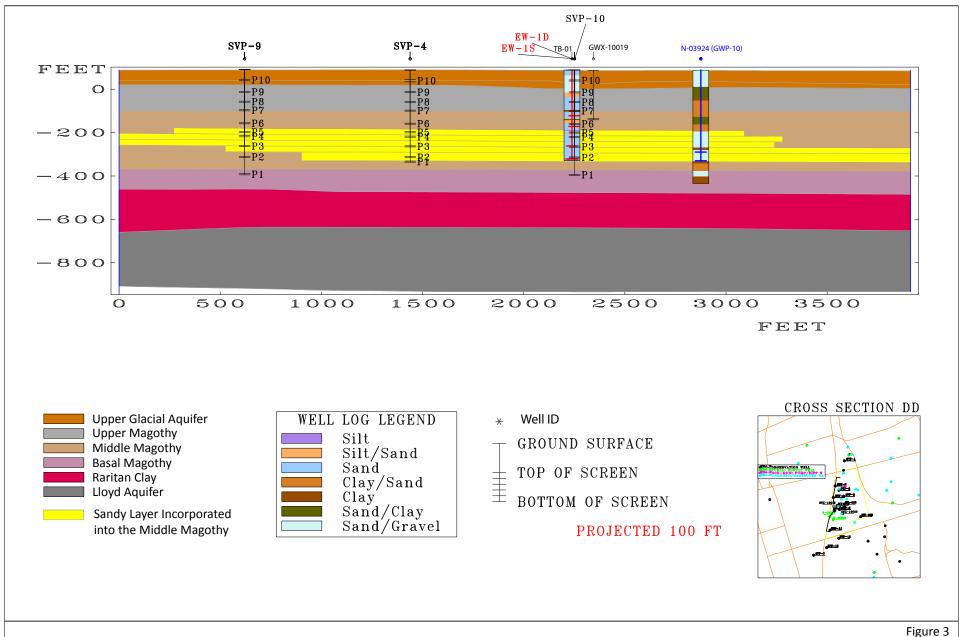
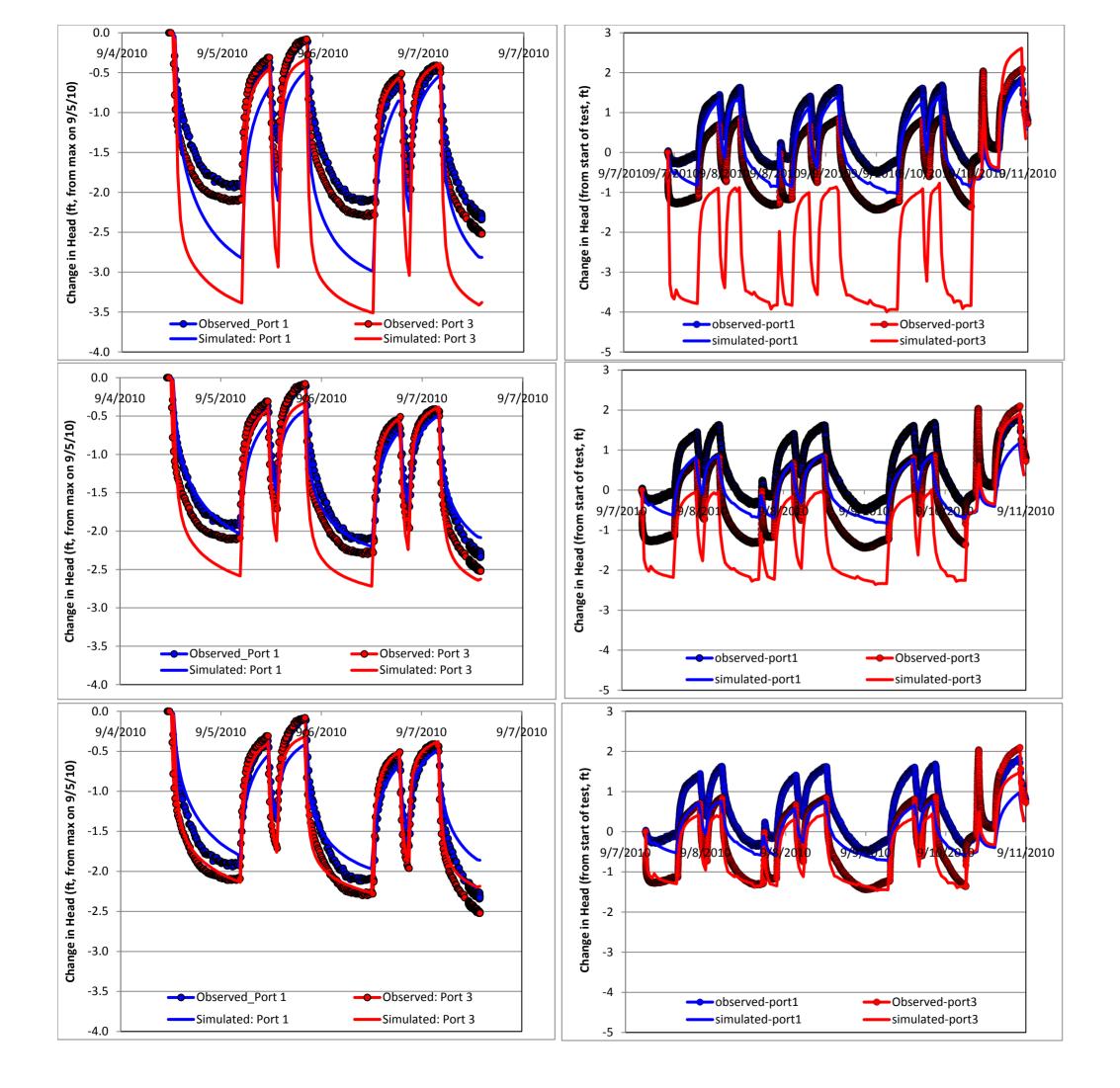


Figure 3
Old Roosevelt Field Groundwater Model
Northeast-Southwest Cross Section



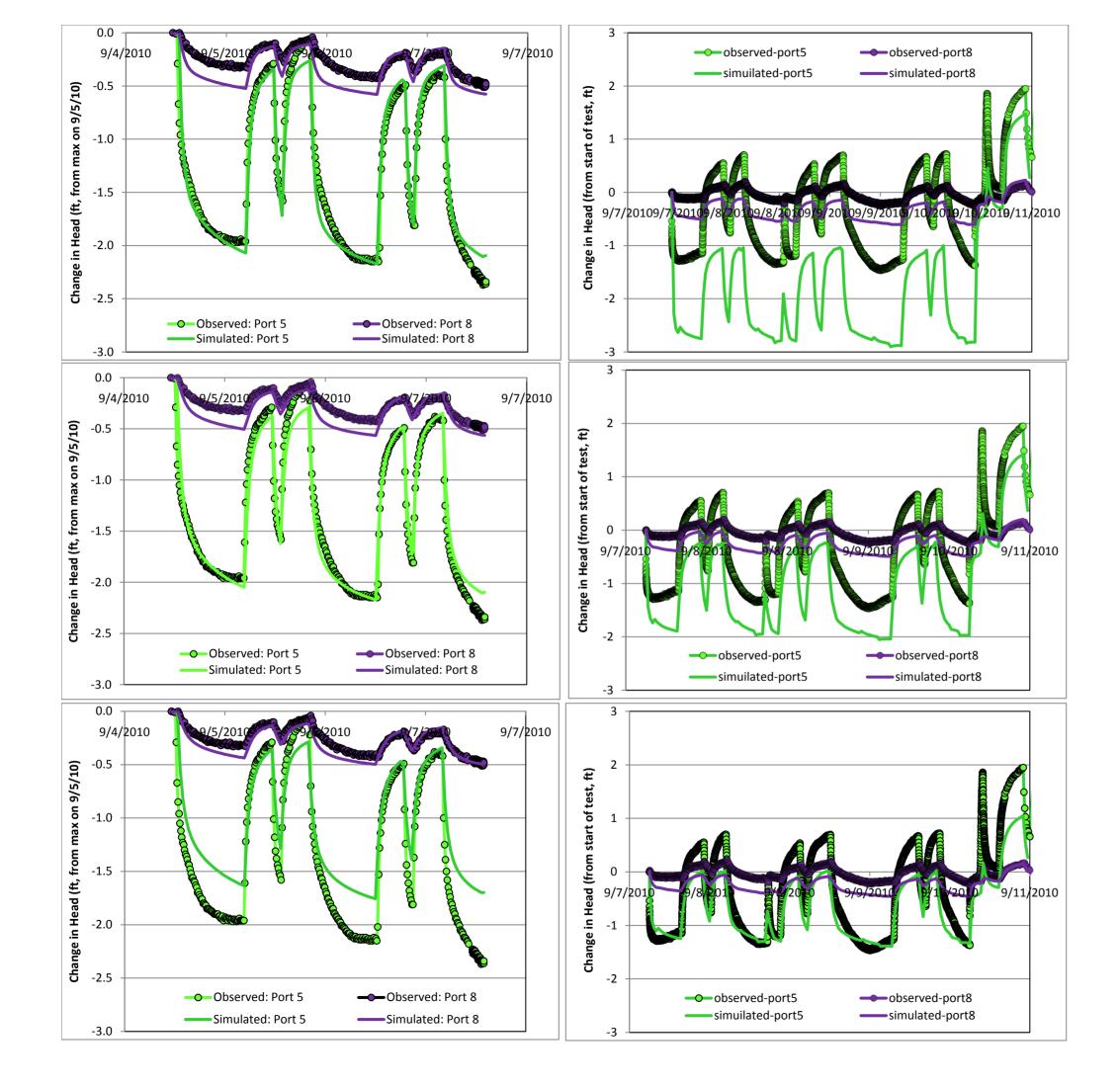


Original Properties from calibrated model UM = 35/0.60 fpd MM = 40/0.7 fpd Sy = 0.25, Ss = 0.1E-5

Coarse Zone added within MM (K=80/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

Coarse Zone added within MM (K=180/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

Figure 4a Simulated vs. observed head in SVP-10. Graphs on the left hand side are pre-aquifer test and represent background (pumping influence of Garden City supply wells only). Graphs to the right are during the aquifer test (EW-01 pumping).

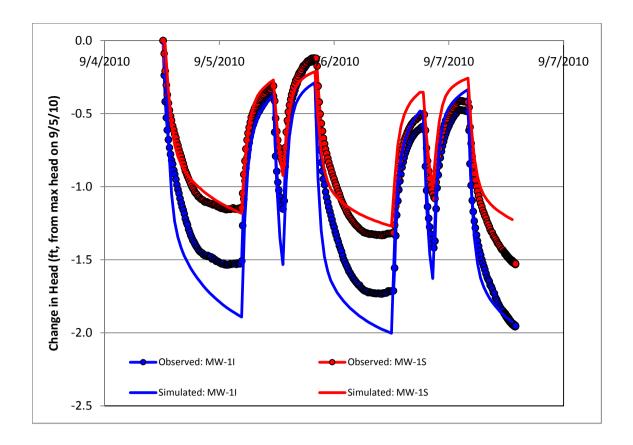


Original Properties from calibrated model UM = 35/0.60 fpd MM = 40/0.7 fpd Sy = 0.25, Ss = 0.1E-5

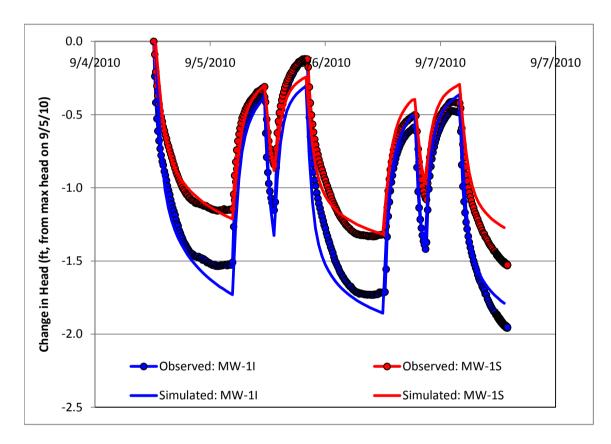
Coarse Zone added within MM (K=80/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

Coarse Zone added within MM (K=180/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

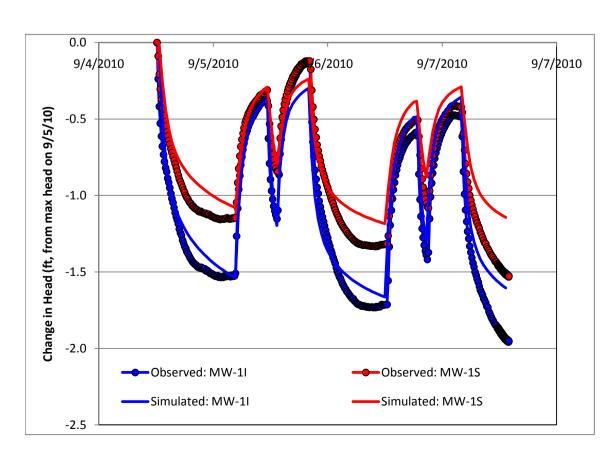
Figure 4b Simulated vs. observed head in SVP-10. Graphs on the left hand side are pre-aquifer test and represent background (pumping influence of Garden City supply wells only). Graphs to the right are during the aquifer test (EW-01 pumping).



Original Properties from calibrated model UM = 35/0.60 fpd MM = 40/0.7 fpd Sy = 0.25, Ss = 0.1E-5

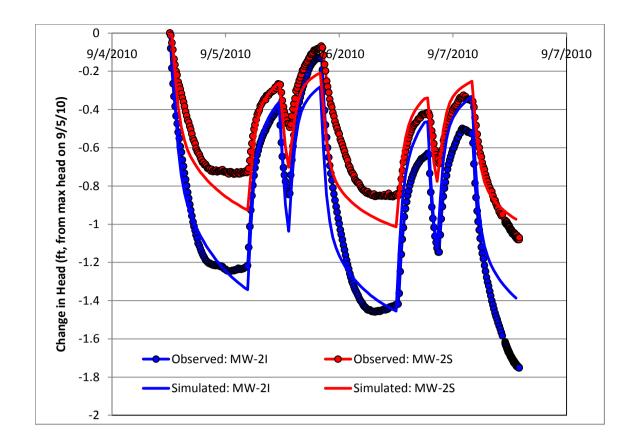


Coarse Zone added within MM (K=80/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

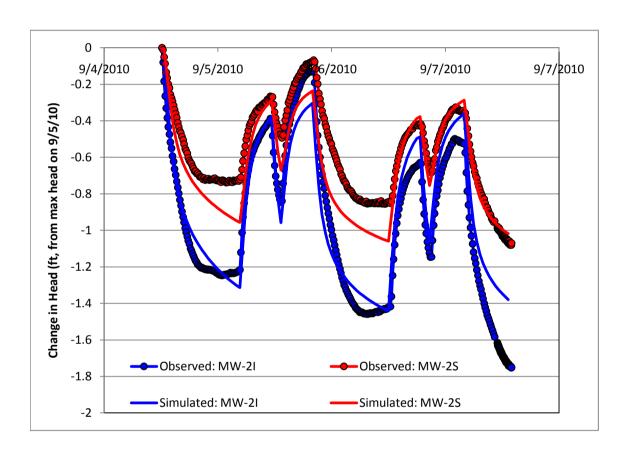


Coarse Zone added within MM (K=180/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

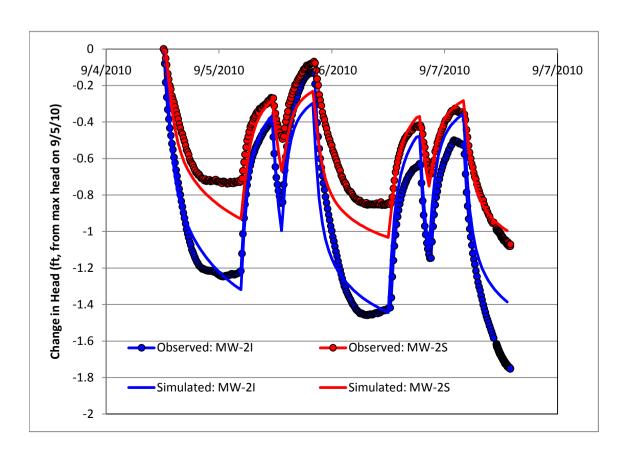
Figure 5 Simulated vs. observed head in MW-01. Graphs on the left hand side are pre-aquifer test and represent background (pumping influence of Garden City supply wells only). Graphs to the right are during the aquifer test (EW-01 pumping).



Original Properties from calibrated model UM = 35/0.60 fpd MM = 40/0.7 fpd Sy = 0.25, Ss = 0.1E-5

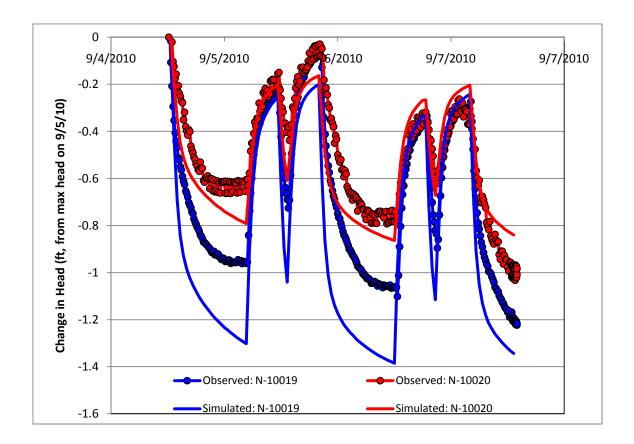


Coarse Zone added within MM (K=80/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

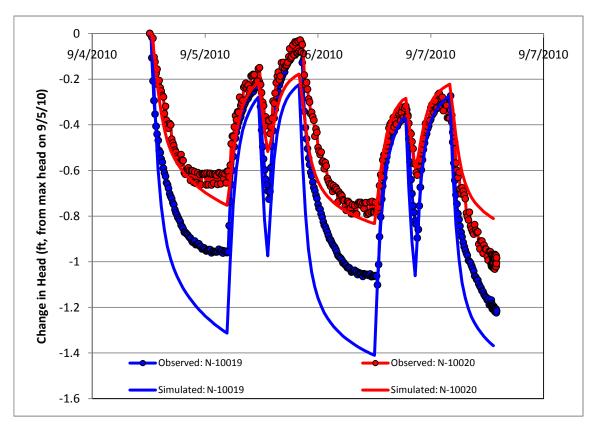


Coarse Zone added within MM (K=180/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

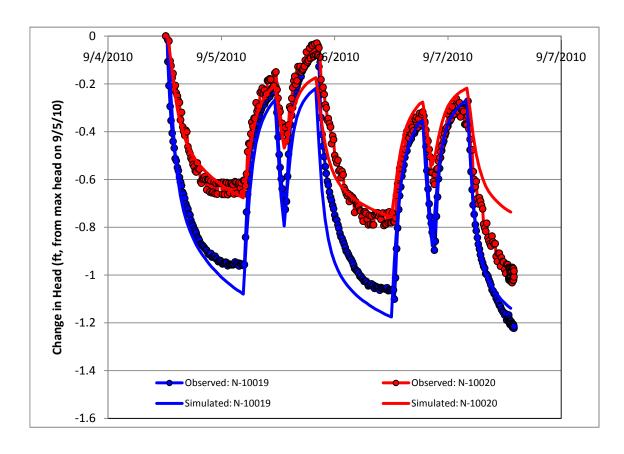
Figure 6 Simulated vs. observed head in MW-02. Graphs on the left hand side are pre-aquifer test and represent background (pumping influence of Garden City supply wells only). Graphs to the right are during the aquifer test (EW-01 pumping).



Original Properties from calibrated model UM = 35/0.60 fpd MM = 40/0.7 fpd Sy = 0.25, Ss = 0.1E-5

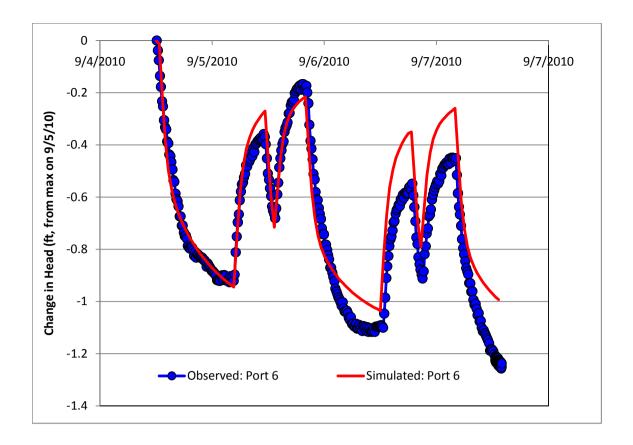


Coarse Zone added within MM (K=80/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

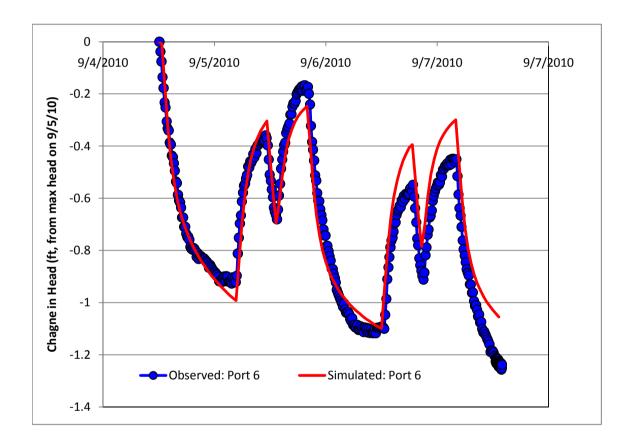


Coarse Zone added within MM (K=180/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

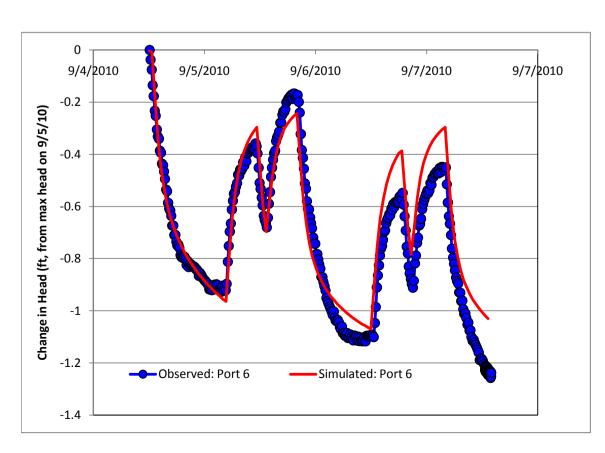
Figure 7 Simulated vs. observed head in NCDPW monitoring wells. Graphs on the left hand side are preaquifer test and represent background (pumping influence of Garden City supply wells only). Graphs to the right are during the aquifer test (EW-01 pumping).



Original Properties from calibrated model UM = 35/0.60 fpd MM = 40/0.7 fpd Sy = 0.25, Ss = 0.1E-5

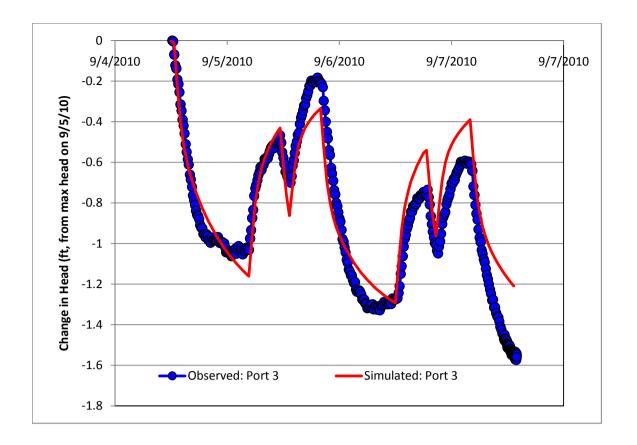


Coarse Zone added within MM (K=80/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

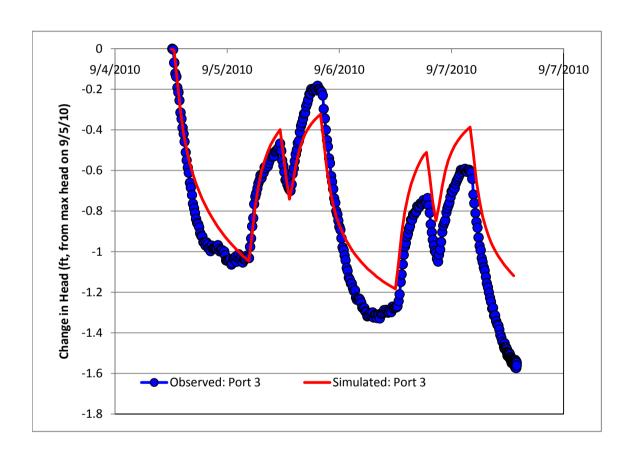


Coarse Zone added within MM (K=180/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

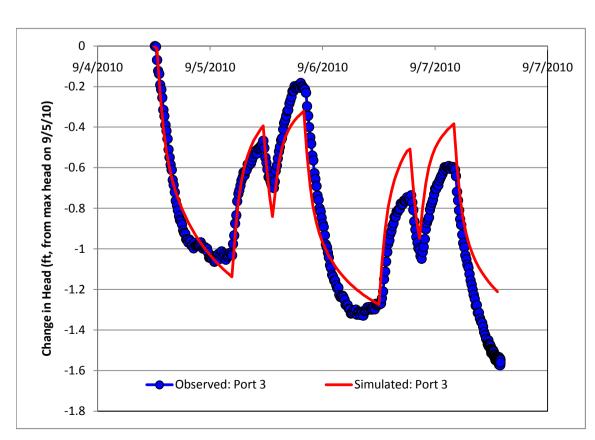
Figure 8 Simulated vs. observed head in SVP-04. Graphs on the left hand side are pre-aquifer test and represent background (pumping influence of Garden City supply wells only). Graphs to the right are during the aquifer test (EW-01 pumping).



Original Properties from calibrated model UM = 35/0.60 fpd MM = 40/0.7 fpd Sy = 0.25, Ss = 0.1E-5

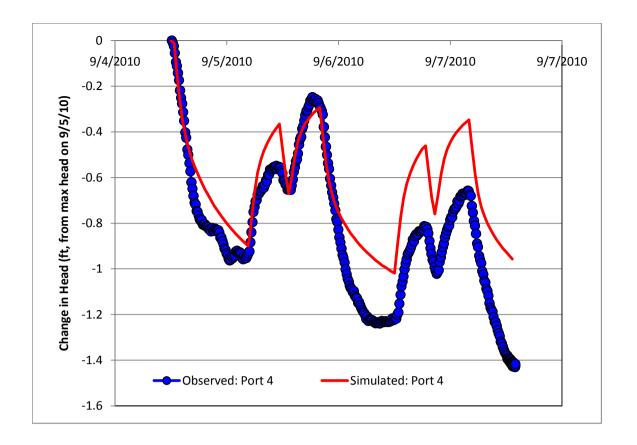


Coarse Zone added within MM (K=80/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

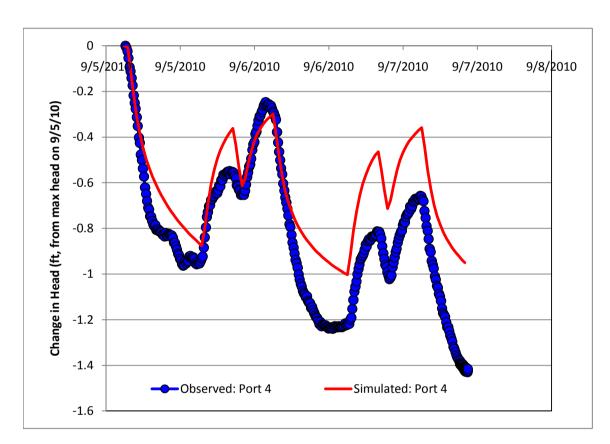


Coarse Zone added within MM (K=180/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

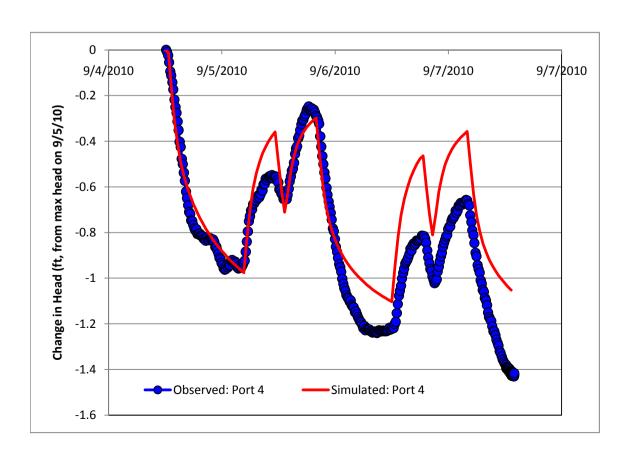
Figure 9 Simulated vs. observed head in SVP-03. Graphs on the left hand side are pre-aquifer test and represent background (pumping influence of Garden City supply wells only). Graphs to the right are during the aquifer test (EW-01 pumping).



Original Properties from calibrated model UM = 35/0.60 fpd MM = 40/0.7 fpd Sy = 0.25, Ss = 0.1E-5

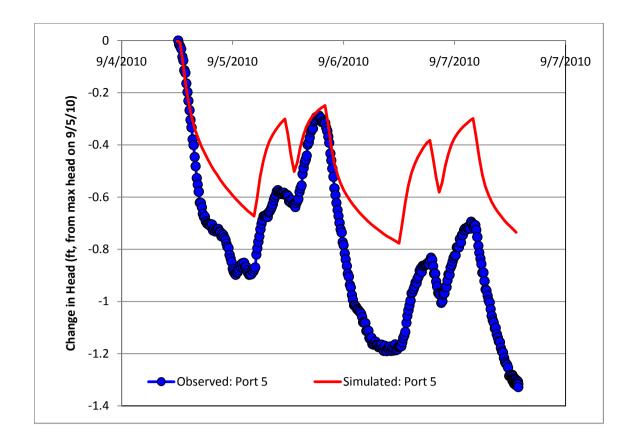


Coarse Zone added within MM (K=80/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

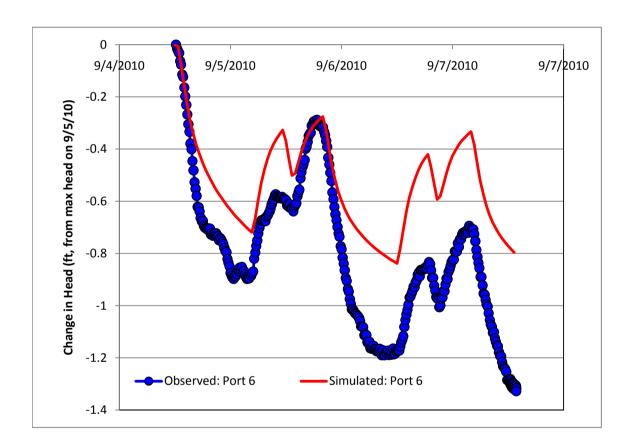


Coarse Zone added within MM (K=180/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

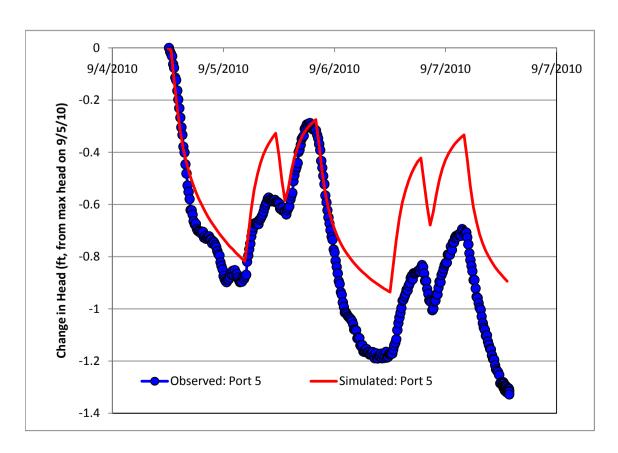
Figure 10 Simulated vs. observed head in SVP-02. Graphs on the left hand side are pre-aquifer test and represent background (pumping influence of Garden City supply wells only). Graphs to the right are during the aquifer test (EW-01 pumping).



Original Properties from calibrated model UM = 35/0.60 fpd MM = 40/0.7 fpd Sy = 0.25, Ss = 0.1E-5

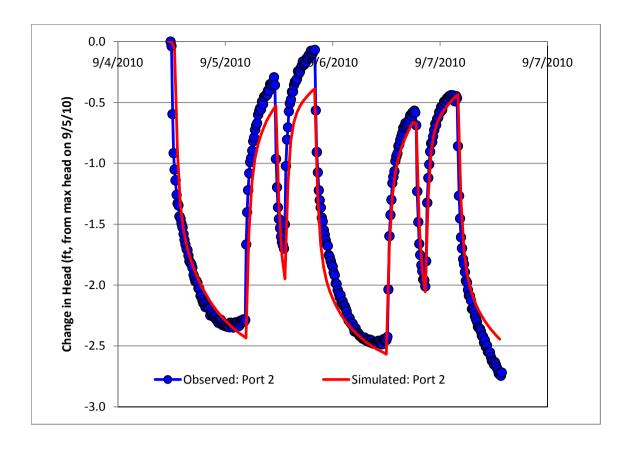


Coarse Zone added within MM (K=80/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

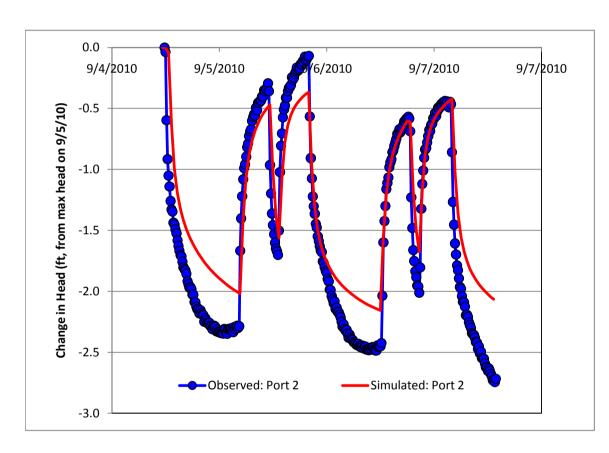


Coarse Zone added within MM (K=180/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

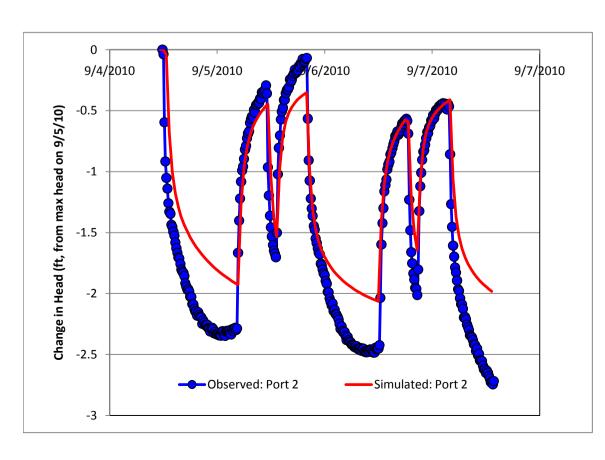
Figure 11 Simulated vs. observed head in SVP-09. Graphs on the left hand side are pre-aquifer test and represent background (pumping influence of Garden City supply wells only). Graphs to the right are during the aquifer test (EW-01 pumping).



Original Properties from calibrated model UM = 35/0.60 fpd MM = 40/0.7 fpd Sy = 0.25, Ss = 0.1E-5



Coarse Zone added within MM (K=80/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d



Coarse Zone added within MM (K=180/2 fpd) modified storage properties slightly Sy = 0.15 for Magothy, Ss = 0.2 E -5 UM = Kh = 60 ft/d

Figure 12 Simulated vs. observed head in SVP-11. Graphs on the left hand side are pre-aquifer test and represent background (pumping influence of Garden City supply wells only). Graphs to the right are during the aquifer test (EW-01 pumping).

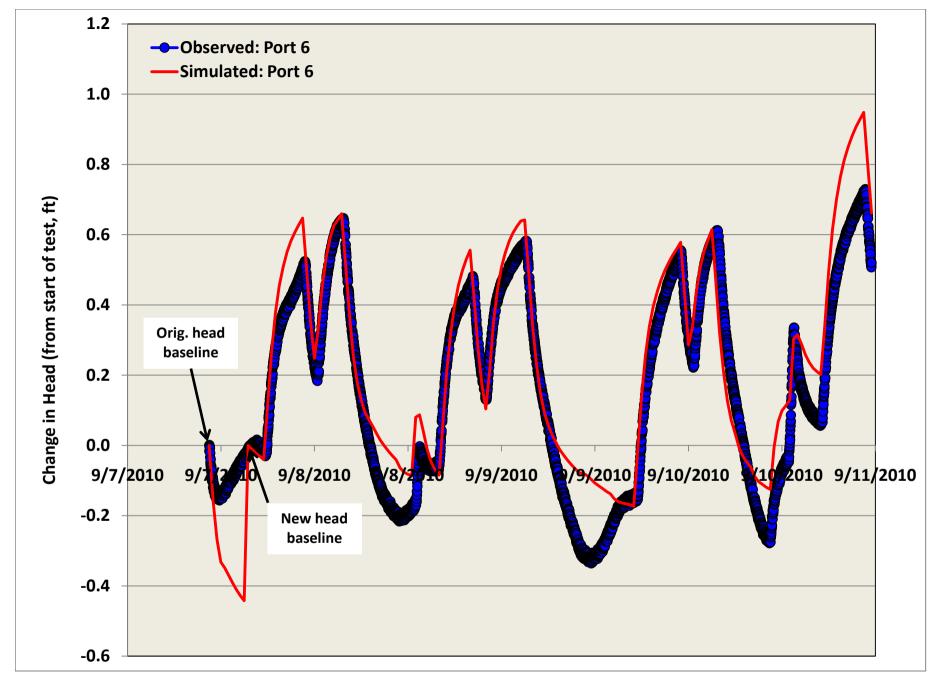
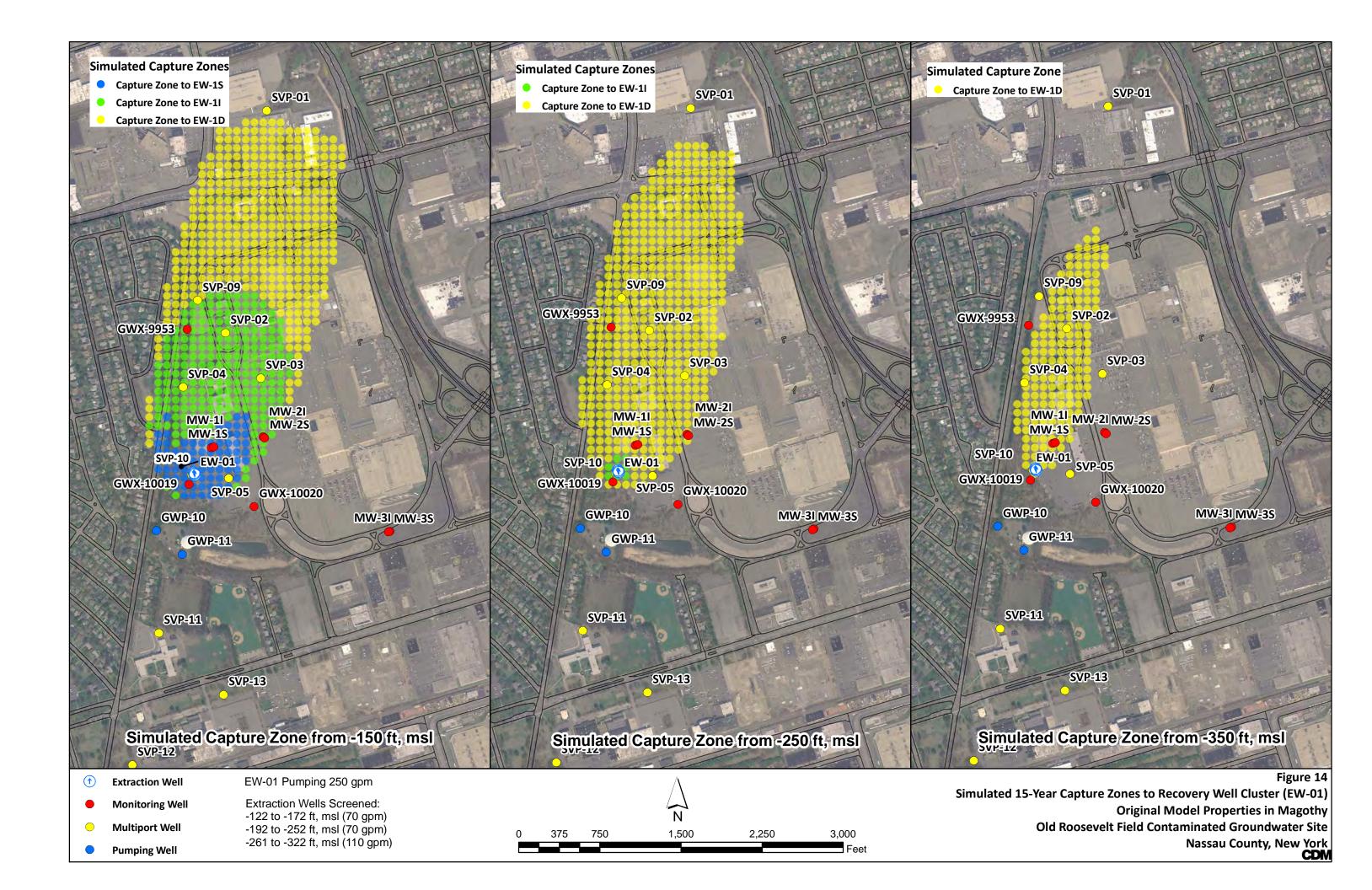
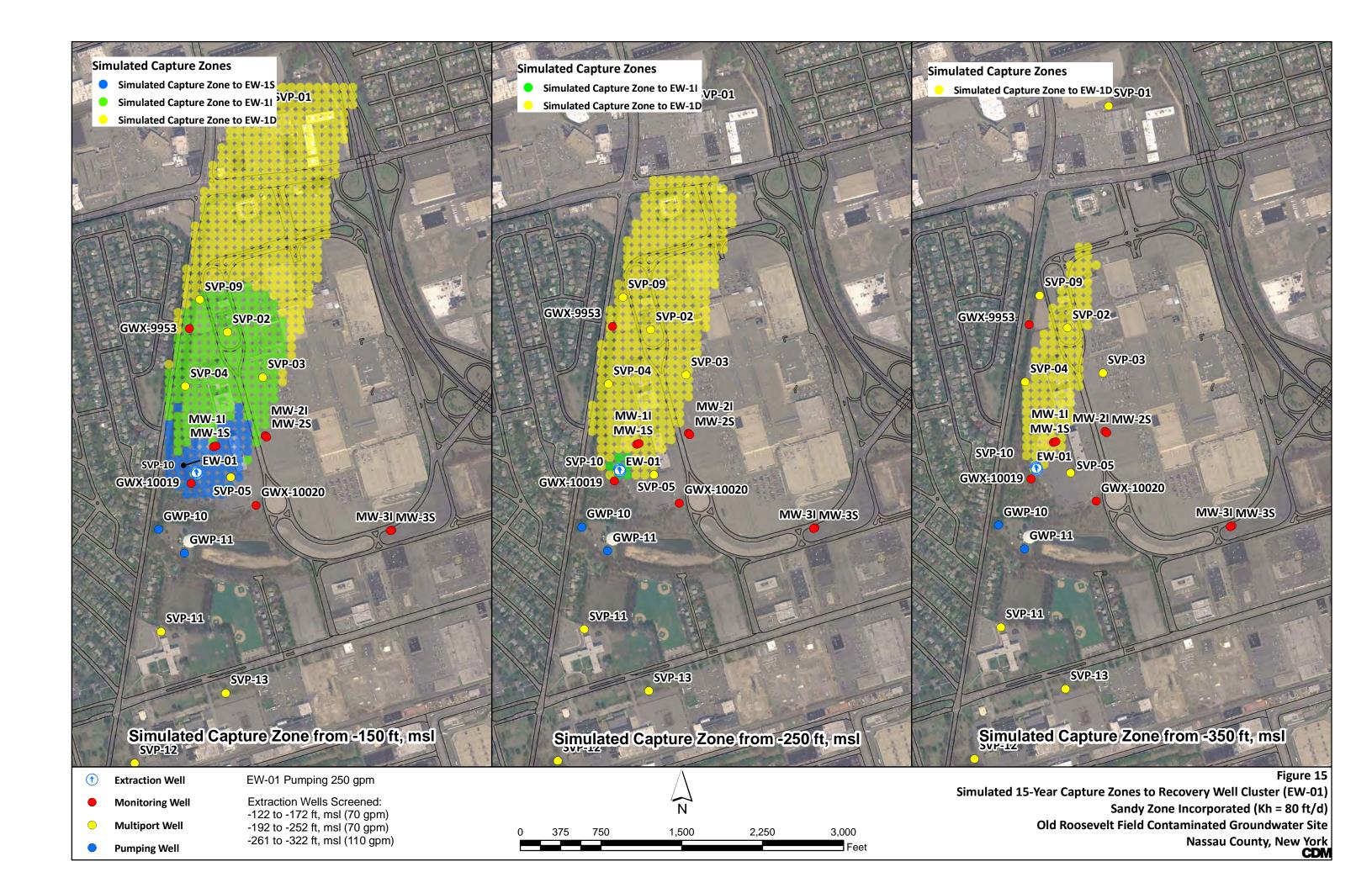
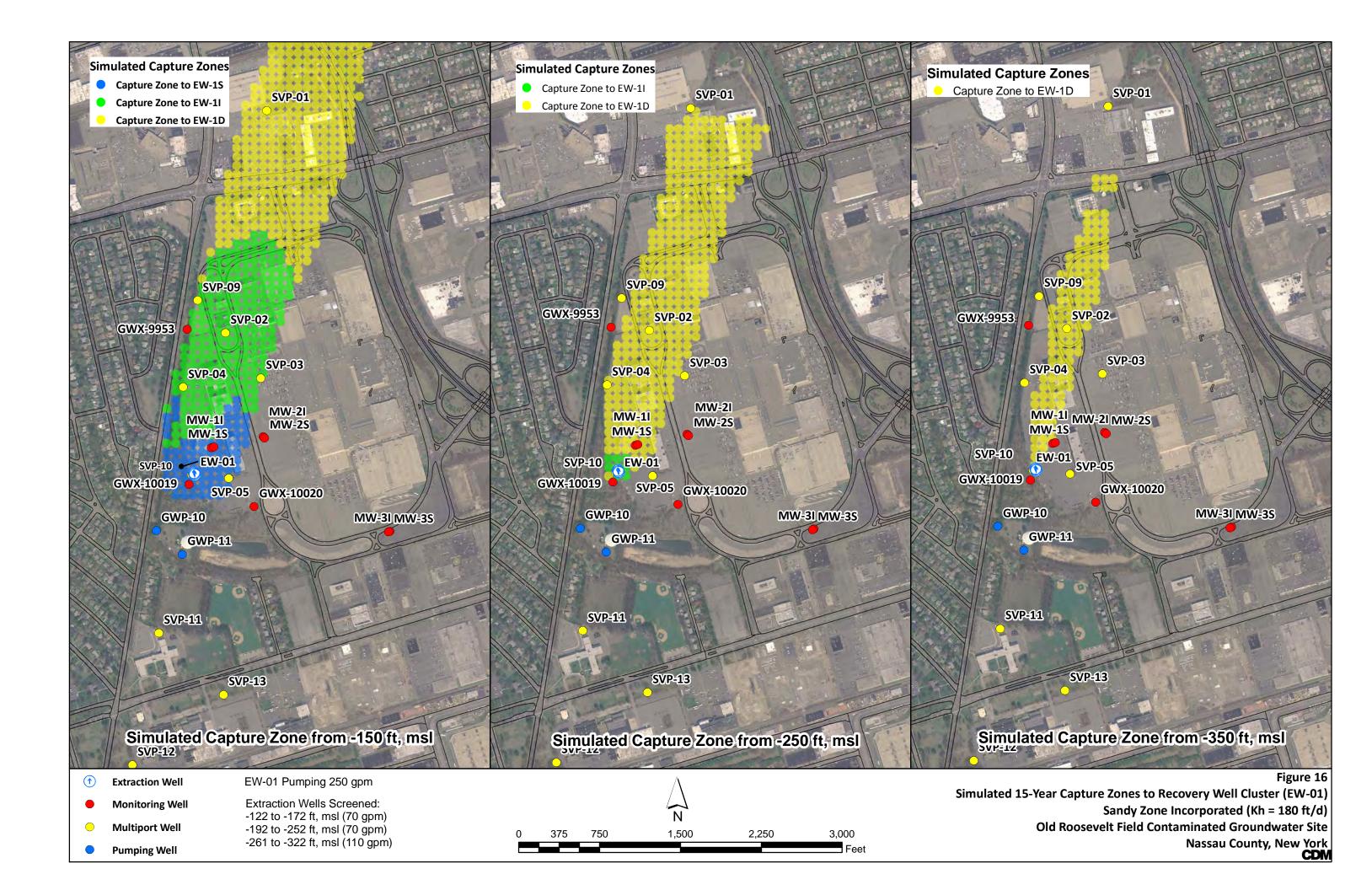
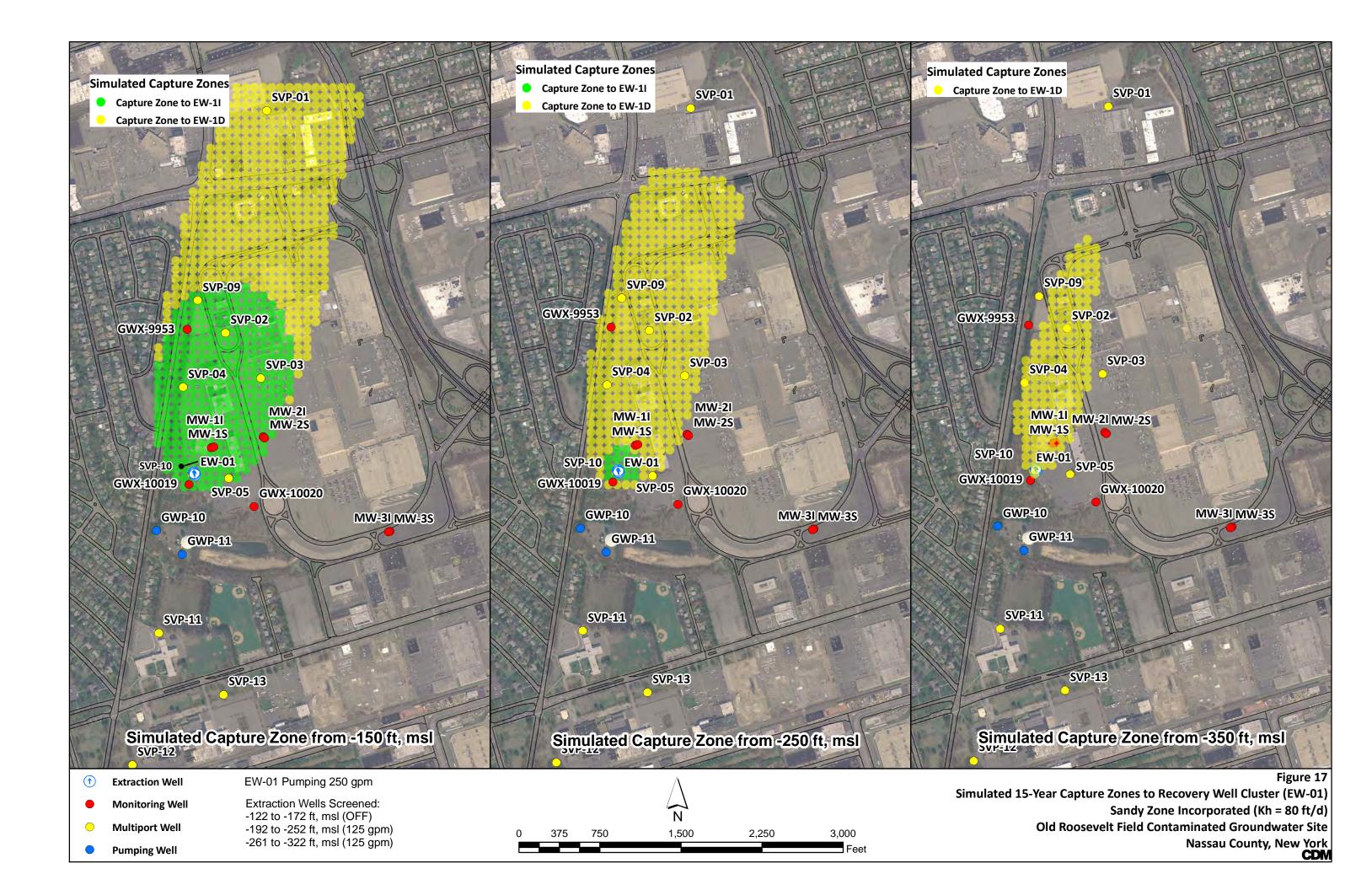


Figure 13
Simulated vs Observed Drawdown for SVP-04 (Port 6)
Simulated Dradown Measured from 9/7/10 15:29.



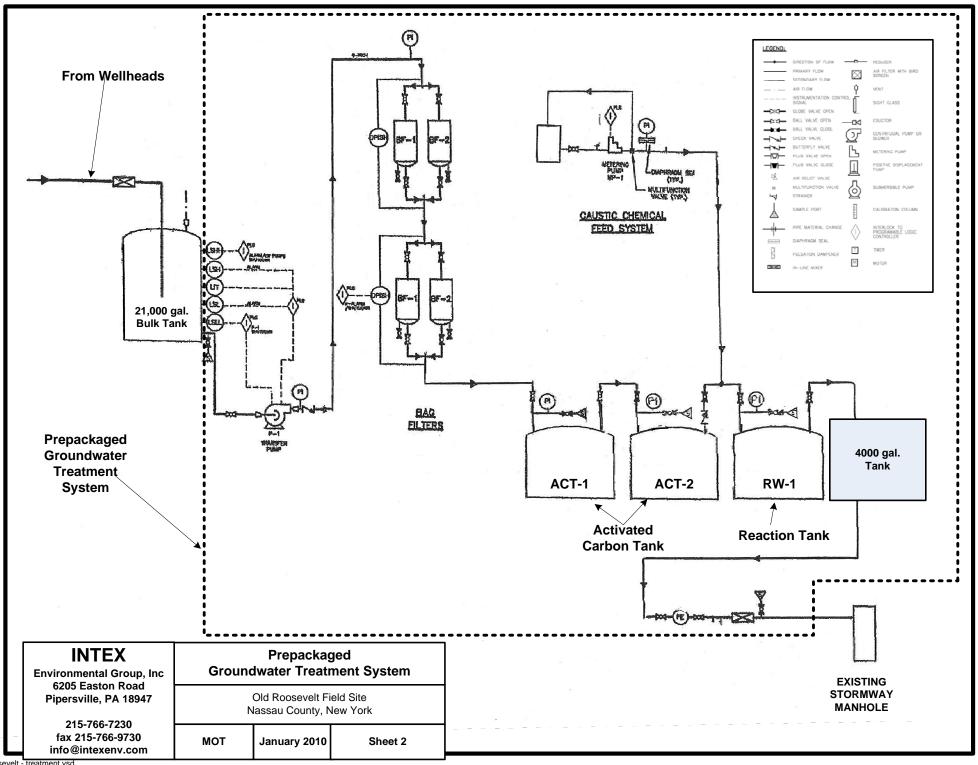






Appendix H

Temporary Water Treatment System P&ID and Completion Report





CDM Federal Programs 110 Fieldcrest Avenue, 6th Floor Edison, New Jersey 08837

Attn: Muzaffar Ali Rahmani

Re: Water Treatment System Report #2, revised

The mobile waste water treatment system began operation at the Roosevelt field site on May 15, 2010. A total of 1,758,000 gallons of drilling-associated waste water were treated during the period of May 15 - September 10, 2010. Drilling operations generating waste water during this time period consisted of well installation, well development and step and continuous pumping tests.

The treatment system consisted of two, 21,000-gallon storage tanks for flow equalization and sedimentation, three pairs of duplex, high pressure bag filters, two carbon adsorbtion vessels containing 5,000 lbs virgin activated carbon each, and one 1,000 gallon discharge equalization tank

Initial groundwater samples were collected from the influent and the effluent holding tank during the first week of groundwater treatment. The treated water was held in the storage tank until the analytical results were obtained and submitted to CDM Federal. Based on the results of the initial sampling, CDM Federal authorized INTEX to discharge the treated effluent to the designated outfall, as stipulated in the RFP.

Table 1 presents a summary of the analytical results for the 11 sampling events conducted during the program. As directed, samples were collected at 200,000 gallon intervals. These results are compared to the Effluent Limitations stated in the Effluent Criteria for Old Roosevelt Field Groundwater Remediation Discharge, page 2 of 3. Complete laboratory analytical reports are provided in Appendix 1. Table 2 presents the cumulative discharge volumes during the project based on flowmeter readings taken at each sampling interval and Table 3 presents the treatment system flow detail on a daily basis. Peak Flow represents the flow rate immediately after bag changeout and Average Flow describes the flow rate over the life of the filter bag.

During the well development tasks, at times, water was delivered to the flow equalization/sedimentation tanks at rates estimated in excess of 350 gpm. At these loading rates, there was little or no opportunity for sedimentation to occur in the holding tank. The buffering capacity of the combined tanks allowed INTEX to keep the treatment rate in the design range, however there were unavoidable excursions as high as 290 gpm during this period. The high sediment loading during these periods did challenge the treatment system. Filter bags were changed out at 30 minute intervals, as determined by the pressure differential across the duplex filter housings.

Samples were collected on 8/24/10 for analyses, as required. When the results were obtained on 9/01/10, exceedances of the Effluent Limitations were noted. It was determined that the likely cause of the elevated concentrations was short circuiting through the carbon units as a result of the high sediment loading. The next scheduled sample was collected and sent for analysis on 9/02/10 prior to any opportunity to take corrective action on the carbon units. On completion of the step test, the carbon units were backflushed to remedy the short circuiting that had resulted in elevated VOCs. The remaining analytical data going forward indicated that carbon units were functioning properly and no further exceedances occurred throughout the program. Therefore, the sediment loading on the carbon units occurring during the brief periods of high throughput is the probable cause of the short-term exceedences of the effluent targets.

If there are any questions, please do not hesitate to call me.

Sincerely yours,

INTEX Environmental Group, Inc.

Daniel Titz Gerald

Vice President

cc Joan Baer, UniTech
Joseph Jacobsen P.G., PhD, INTEX

Enclosure

F:\wp60\DAN\CDM\OLDROOSE\data rpt 2 revised.wpd

Table 1

Old Roosevelt Field Site

Effluent Sampling Times and Analytical Results (ug/L)

Compound	Effluent Targets	Initial Sampling 6/10/2010 1:15 PM	6/24/2010 3:00 PM	8/11/2010 3:35 PM	8/18/2010 11:30 AM	8/24/2010 8:30 AM	9/02/2010 2:30 PM	9/08/2010 12:15 AM	9/08/2010 1:48 PM	9/09/2010 3:21 AM	9/09/2010 4:55 PM	9/10/2010 6:30 AM
Dichlorodifloromethane	5.0	ND	ND	ND	ND	2.48	7.27	ND	ND	ND	ND	ND
1,1, Dichloroethene	5.0	0.410 J	ND	ND	ND	ND	0.470 J	ND	ND	ND	ND	ND
cis -1,2, Dichloroethylene	5.0	ND	ND	ND	ND	0.380 J	0.940 J	ND	ND	ND	ND	ND
trans-1,2, Dichloroethylene	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofloromethane	5.0	ND	ND	ND	ND	ND	3.28	DN	ND	ND	ND	ND
Methyl-tert-Butyl Ether (MTBE)	not specified	ND	ND	ND	ND	1.27	0.480 J	0.310 J	0.350 J	0.300 J	0.410 J	0.430 J
1,1,1, Trichloroethane	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5.0	0.880 J	ND	ND	1.85	8.79	9.53	0.590 J	ND	ND	ND	ND
Tetrachloroethylene	5.0	1.91	ND	ND	0.440 J	5.62	9.68	0.950 J	ND	ND	0.370 J	0.350 J
pH	6.5 - 8.5	7.4	NA	NA	6.85	6.75	6.41	6.8	6.8	6.8	6.8	6.8
Cumula	ative Discharge	Volume (Gallons)	0	137,000	337,000	537,000	722,850	922,850	1,122,850	1,322,850	1,522,850	1,722,850
								Total Gallon	s Discharge	d = 1.758.01	00	

Notes:

Bold type indicates the concentration exceeds the Effluent Target

ND = Constituent not detected

NA = Not Analyzed

J = Estimated concentration

F:\wp60\DAN\CDM\OLDROOSE\[Effluent Lab tables.xls]eff. conc.

Table 2
Old Roosevelt Field Site
Discharge Volume (Gallons)

	Meter	Change	Cumulative
Start 6/24/2010 3:00 PM	6 654 000		0
	6,654,000	0	0
8/11/2010 3:35 PM	6,791,000	137,000	137,000
8/18/2010 11:30 AM	6,991,000	200,000	337,000
8/24/2010 8:30 AM	7,191,000	200,000	537,000
9/02/2010 2:30 PM	7,376,850	185,850	722,850
9/08/2010 12:15 AM	7,576,850	200,000	922,850
9/08/2010 1:48 PM	7,776,850	200,000	1,122,850
9/09/2010 3:21 AM	7,976,850	200,000	1,322,850
9/09/2010 4:55 PM	8,176,850	200,000	1,522,850
9/10/2010 6:30 AM	8,376,850	200,000	1,722,850
Stop	8,412,000	35,150	1,758,000

F:\wp60\DAN\CDM\OLDROOSE\[Effluent Lab tables.xls]eff. conc.

Table 3
Field Note Summarry

Date	Volume	Peak Flow	Average Flow	Comments
·	(gallons)	(gallons)	(gallons)	
8/10/2010	43,500	275 gpm	170 gpm	well development
8/11/2010	93,000	290 gpm	192 gpm	well development
8/13/2010	52,800	275 gpm	220 gpm	well development
8/16/2010	89,000	275 gpm	214 gpm	well development
8/17/2010	43,000	275 gpm	218 gpm	well development
8/18/2010	73,450	275 gpm	204 gpm	well development
8/19/2010	81,750	275 gpm	205 gpm	well development
8/23/2010	58,100	275 gpm	175 gpm	well development
8/24/2010	78,500	265 gpm	163 gpm	well development
8/31/2010	31,850	265 gpm	162 gpm	Step test
9/1/2010	31,550	265 gpm	161 gpm	Step test
9/2/2010	56,650	265 gpm	157 gpm	Step test
9/7/2010	200,000	260 gpm	240 gpm	72 hour pumping te
9/8/2010	345,600	260 gpm	240 gpm	72 hour pumping te
9/9/2010	345,600	260 gpm	240 gpm	72 hour pumping te
9/10/2010	145,600	260 gpm	240 gpm	72 hour pumping te

F:/wp60/Dan/CDM/OLDROOSE/Data Rpt Table 3

APPENDIX 1 Effluent Lab Data



Analytical Report



DAN FITZGERALD
INTEX INC.
6907A EASTON ROAD

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Regarding:

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

PIPERSVILLE, PA 18947

P.O. No: PWSID No: Inv. No: 1219461

Sample Description ROOSEVELT EFFLUENT Received Temp: 36 F Sampled by Customer Sampled Sample Number Samp. Date/Time/Temp L3407701-1 06/24/10 03:00pm NA F Iced (Y/N): Y Parameter Method Result RLs Test Date, Time, Analyst GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES 06/30/10 05:06PM EEW 06/30/10 05:06PM EEW 06/30/10 05:06PM EEW 06/30/10 05:06PM EEW DICHLORODIFLUOROMETHANE CHLOROMETHANE 0.620 ug/]* 0.430 ug/]* 0.350 ug/]* 0.370 ug/]* EPA 624 EPA 624 ND ug/1 ND uğ/1 EPA 624 EPA 624 EPA 624 EPA 624 VINYL CHLORIDE BROMOMETHANE CHLOROETHANE ND ug/] 06/30/10 05:06PM 06/30/10 05:06PM 06/30/10 05:06PM 06/30/10 05:06PM ND uğ/1 FFW ND uğ/1 EEW 0.470 ug/1* 6.13 ug/1* 0.290 ug/1* 0.230 ug/1* TRICHLOROFLUOROMETHANE ND ug/] EEW TERTIARY BUTYL ALCOHOL EPA 624 ND ug/1 06/30/10 05:06PM EEW 06/30/10 05:06PM EEW 1,1-DICHLOROETHENE EPA 624 ND ug/1 METHYL TERTIARY BUTYL ETHER EPA 624 ND ug/1 0.230 ug/1* 0.500 ug/1* 0.230 ug/1* 0.220 ug/1* 0.320 ug/1* 0.200 ug/1* 0.260 ug/1* 0.250 ug/1* 0.310 ug/1* 0.310 ug/1* 06/30/10 05:06PM EEW 06/30/10 06:06PM EEW 06/10 06:06PM EEW 06/10 06:000 METHYLENE CHLORIDE TRANS-1,2-DICHLOROETHENE 1,1-DICHLOROETHANE EPA 624 ND uğ/] EPA 624 ND uğ/1 EPA 624 EPA 624 ND ug/1 CARBON TETRACHLORIDE CIS-1,2-DICHLOROETHENE CHLOROFORM EPA 624 ND uğ/] EPA 624 ND uğ/1 1,1,1-TRICHLOROETHANE BENZENE EPA 624 ND uğ/] EPA 624 ND uğ/l 1,2-DICHLOROETHANE TRICHLOROETHENE EPA 624 EPA 624 06/30/10 05:06PM EEW 06/30/10 05:06PM EEW ND ug/1 ND ug/1 0.310 ug/1* 0.220 ug/1* 0.240 ug/1* 0.170 ug/1* 0.140 ug/1* 0.320 ug/1* 0.490 ug/1* 06/30/10 05:06PM EEW 06/30/10 EPA 624 EPA 624 EPA 624 EPA 624 EPA 624 EPA 624 1,2-DICHLOROPROPANE BROMODICHLOROMETHANE ND ug/1 ND ug/1 ND ug/1 ND ug/1 TOLUENE TRANS-1,3-DICHLOROPROPENE CIS-1,3-DICHLOROPROPENE 1,1,2-TRICHLOROETHANE ND ug/1 ND uğ/1 2-CHLOROETHYL VINYL ETHER DIBROMOCHLOROMETHANE ND ug/1 EPA 624 0.310 ug/1* 0.300 ug/1* 06/30/10 05:06PM EEW 06/30/10 05:06PM EEW ND ug/1 TETRACHLOROETHENE EPA 624 ND ug/1 0.280 ug/1* 0.220 ug/1* 06/30/10 05:06PM EEW 06/30/10 05:06PM EEW CHLOROBENZENE EPA 624 ND uğ/] ETHYL BENZENE EPA 624 ND uğ/1 M&P XYLENES EPA 624 0.400 ug/1* 06/30/10 05:06PM EEW

Page 1 of 2

Serial Number: 1458391

Thomas J. Hines, President

QC Laboratories

Analytical Report



Account No: AW0789, INTEX INC. P.O. No: Inv. No: 1219461 PWSID No: Project No: AW0789 FITZGERALD, INTEX INC. Sample Description ROOSEVELT EFFLUENT Samp. Date/Time/Temp 06/24/10 03:00pm NA F Sampled by Customer Sampled Sample Number L3407701-1 RLs 0.190 ug/1* 0.250 ug/1* 0.250 ug/1* 0.180 ug/1* 0.250 ug/1* Test Date, Time, Analyst 06/30/10 05:06PM EEW 06/30/10 05:06PM EEW Parameter Method Result. O-XYLENE EPA 624 EPA 624 ND ug/1 ND ug/1 ND ug/1 ND ug/1 ND ug/1 BROMOFORM 06/30/10 05:06PM EEW 1,1,2,2-TETRACHLOROETHANE 1,3-DICHLOROBENZENE EPA 624 EPA 624 EPA 624 1,4-DICHLOROBENZENE ND uğ/1 ,2-DICHLOROBENZENE EPA 624 EPA 624 LIB SR

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
 Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count
 A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
 All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
 The test"pH lab"is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
 The reported results relate only to the samples.
 QC NELAP ID's:PA 09-00131,NJ PA166,FL E87954,NY 11223,CT PH-0768,DE PA-018,KY 90228,MD 206,EPA PA00018.Bioassay:PA 09-03574,NJ PA034,FL E87953,KS E10373,SC 89020001.
 QC STATE ID's:Wind Gap,NJ PA001,PA 48-01334;E RUTHERFORD NJ02015;Vineland NJ06005; Reading PA 06-03543.
 All samples are collected as "grab" samples unless otherwise identified.
 MCL= is the EPA recommended "maximum contaminant level" for a parameter. PLs=customer specific permit limits.
 The test results meet all requirements of NELAC unless otherwise specified.
 The report shall not be reproduced except in full without the written consent of the laboratory.
 * The "RLs" represents a reporting/quantitation limit. When an "*" is present immediately following the "RLs" units, the "RLs" is the Method Detection Limit (MDL).

Serial Number: 1458391

homos Thomas J. Hińes, President

Page 2 of 2

© QC Laboratories	CHAIN OF CUSTODY	Lab LIMS No: (340770)	MATRIX CODES
1205 Industrial Blvd. Phone: 215-355-3900 Southampton, PA 18966-0514 Fax: 215-355-7231	Page of Bill to/Report to: (if different) SAME	# Ascorbic/HCl Vials # HCl Vials # Na ₂ S ₂ O ₃	DW: DRINKING WATER GW: GROÛND WATER WW: WASTEWATER
Address 677 LASTON ROWN PAURS AUT PA City/State/Zip 18-47 Phone/Fax 257766-7210 Client Contact DAN FTT 65/RAL	Sampling Site Address: (if different) ROOSKULT FILUD GAROW CITY NY P.O. No. QC Contact	# Na OH/Zn acetate pH # HNO ₃ pH # H ₂ SO ₄ pH # NaOH pH # Unpreserved # Hcl pH	SO: SOIL SL: SLUDGE OIL: OIL SOL: NON SOIL SOLID MI: MISCELLANEOUS
PROJECT A FIELD ID	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	# Temp control D# CI D ANALYSIS REQUESTED	X: OTHER Field pH, Temp (C or F), DO, Cl ₂ , S. Cond. etc.
15 15	5-2410 15:00x 6W 4 4	dichlorodifloromethane	
9 8		cis 1,2 dichlorathele	ne
		Trans 11	
SAMPLED BY: (Name/Company) Verbal/fax data due: Hardcopy due: /			lyzed By: Date/Time:
Please call for pricing and av	railability on rush (<14-21 day) turnaround and on all but standar	The state of the s	S 0800, 4 PM IS 1600)
RELINQUISHED BY SAMPLER DATE TIME 1 6/24/16 8/30 RELINQUISHED BY DATE TIME	RECEIVED BY () (1) DATE	TIME DELIVERY METHOD: QC COURIER CLIEN UPS FEDEX OTHER TIME COMMENTS:	1T Custody Seal Number
RELINQUISHED BY REUNQUISHED BY DATE TIME A TIME	RECEIVED BY DATE DATE	New York State (FA Standards
RELINQUISHED BY DATE TIME	RECEIVED BY DATE	TIME Hazardous: yes / no	

For example to aid completion, see reverse side.



Analytical Report



Regarding:

GREG VAN HOOK INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

GREG VAN HOOK INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC.
Project No: AW0789, INTEX INC.

Sample Number Sample Description

P.O. No: PWSID No: Inv. No: 1233629

L3476402-1 ROOSEVE	Description ELT FIELD, LONG ISLAND* EFFLUEN ed Temp: 36 F Iced (Y/N): Y	NT GRAB	Samp. Date/Time/Temp 08/11/10 03:35pm NA F	Sampled by Customer Sampled
Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRA DICHLORODIFLUOROMETHA CHLOROMETHANE VINYL CHLORIDE BROMOMETHANE CHLOROETHANE TRICHLOROFLUOROMETHAY TERTIARY BUTYL ALCOME 1,1-DICHLOROETHENE METHYL TERTIARY BUTYL METHYLENE CHLORIDE TRANS-1,2-DICHLOROETHANE CARBON TETRACHLORIDE CIS-1,2-DICHLOROETHANE CARBON TETRACHLORIDE CHLOROFORM 1,1,1-TRICHLOROETHANE BENZENE 1,2-DICHLOROETHANE TRICHLOROETHANE TRICHLOROETHANE TRICHLOROETHANE TRICHLOROETHANE TRICHLOROETHANE TOLUENE TRANS-1,3-DICHLOROPRO CIS-1,3-DICHLOROPRO CIS-1,3-DICHLOROPROPRO CIS-1,3-DICHLOROPROPRO CIS-1,1,2-TRICHLOROETHANE TOLUENE TRANS-1,3-DICHLOROPROPRO CIS-1,3-DICHLOROPROPRO CIS-1,1,2-TRICHLOROETHANE TETRACHLOROETHANE TETRACHLOROETHANE TETRACHLOROETHENE CHLOROBENZENE M&P XYLENES	EPA 624	VOLATILES D ug/1 ND ug/1	0.620 ug/1* 0.430 ug/1* 0.370 ug/1* 0.370 ug/1* 0.280 ug/1* 0.470 ug/1* 6.13 ug/1* 0.290 ug/1* 0.230 ug/1* 0.230 ug/1* 0.230 ug/1* 0.200 ug/1* 0.200 ug/1* 0.220 ug/1* 0.220 ug/1* 0.220 ug/1* 0.240 ug/1* 0.240 ug/1* 0.240 ug/1* 0.240 ug/1* 0.240 ug/1* 0.240 ug/1* 0.310 ug/1* 0.320 ug/1*	08/19/10 02:33AM EEW 08/19/10

Page 1 of 2

Serial Number: 1527351

Thomas / Homes Thomas J. Hines, President

QC Laboratories

Assessment Alex ALIOZOO TATEV TAIC

Analytical Report



Ten. No. 1222020

Project No: AW0789, INTEX INC.			P.O. NO: PWSID No:	1nv. No: 123 <i>3</i> 629	
Sample Number Sample Description ROOSEVELT FIELD,	on LONG ISLAND* EFFLUENT GRAB		Samp. Date/Time/Temp 08/11/10 03:35pm NA F	Sampled by Customer Sampled	
Parameter O-XYLENE BROMOFORM 1,1,2,2-TETRACHLOROETHANE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,2-DICHLOROBENZENE NONE FOUND	Method EPA 624 EPA 624 EPA 624 EPA 624 EPA 624 EPA 624 EPA 624	Result ND ug/1	RLs 0.190 ug/]* 0.250 ug/]* 0.250 ug/]* 0.180 ug/]* 0.250 ug/]*	Test Date, Time, Analys: 08/19/10 02:33AM EEW	t

D.O. No.

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
 Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count
 A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
 All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
 The test"pH lab"is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
 The reported results relate only to the samples.
 QC NELAP ID's:PA 09-00131,NJ PA166,FL E87954,NY 11223,CT PH-0768,DE PA-018,KY 90228,MD 206,EPA PA00018.Bioassay:PA 09-03574,NJ PA034,FL E87953,KS E10373,SC 89020001.
 QC STATE ID's:Wind Gap,NJ PA001,PA 48-01334;E RUTHERFORD NJ02015;Vineland NJ06005; Reading PA 06-03543.
 All samples are collected as "grab" samples unless otherwise identified.
 MCL= is the EPA recommended "maximum contaminant level" for a parameter. PLs=customer specific permit limits.
 The test results meet all requirements of NELAC unless otherwise specified.
 The report shall not be reproduced except in full without the written consent of the laboratory.
 * The "RLs" represents a reporting/quantitation limit. When an "*" is present immediately following the "RLs" units, the "RLs" is the Method Detection Limit (MDL).

Serial Number: 1527351

Page 2 of 2

DW: DRINKIN	ELUDGE DIL NON SOIL SOLID MISCELLANEOUS
Client/Acct. No. NTEX ENV. GIOUP INC. Address 69074 EASTON Pd. Sampling Site Address: (if different) ROUSEVELT FIEZD H2SO4 pH OIL: OIL City/State/Zip Persule PA 18947 LONG ISCAND MaOH pH Sol: NON SO Phone/Fax 215 766 7230 9730 P.O. No. Unpreserved Mi: MISCELLA	WASTEWATER SOIL SUUDGE DIL NON SOIL SOLID MISCELLANEOUS
l au . a	HER
	pH, Temp (C or F) Cl ₂ , S. Cond. etc.
SAMPLED BY: (Name/Company) Verbal/fax data due:/ Report Format: Standard Forms Field Parameters Analyzed By: Hardcopy due:/_ NJ Reduced	
RELINQUISHED BY SAMPLER DATE DATE	, 4 PM IS 1600 Custody Seal Numbe

For example to aid completion, see reverse side.

DATE

TIME

Hazardous: yes / no

RELINQUISHED BY

DATE

TIME

RECEIVED BY

QC LABORATORIES FIELD SERVICE REQUEST FORM Aug 13 2010, 10:10 am



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Primary Driver: JCN

Project No.: AW0789 FITZGERALD

Phone: (215)766-7230 Fax: (215)766-9730

Cell: () -

Service Date: 08/13/10 To 08/13/10

PICK-UP

Delivery Charge:

Day of Week: FRI

Sampling Instructions: PLEASE PICK UP SAMPLES

Contact: DAN

Bottle Prep:

Rush Samples:

Service to be performed at:

PLEASE PICK UP SAMPLES (JOAN SAID SHE CAN DO THIS TODAY)

Requested by: Rachel A. DeCarlo Ext: 3365

Entry date: 08/13/10 10:10AM

Call received: 08/13/10 08:58AM

Field Service Request No.: FS141779

Service Time: 10 minutes

Equip Code: PU



Analytical Report



Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC.

Project No: AW0789 FITZGERALD, INTEX INC.

PWSID No:

Inv. No: 1235149

Sample Number Sample Description Samp. Date/Time/Temp Sampled by

ROOSEVELT FIELD, GARDEN CITY NY* EFFLUENT

08/18/10 11:30am NA F Iced (Y/N): Y

Received Temp Parameter Method Result RLs Test Date, Time, Analyst GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES
DICHLORODIFLUOROMETHANE EPA 624
CHLOROMETHANE EPA 624
VINUE EPA 624
FDA 624 08/23/10 08:08PM EEW 08/23/10 ND ug/1 0.620 ug/1* 0.430 ug/1* 0.350 ug/1* 0.370 ug/1* 0.280 ug/1* ND uğ/1 VINYL CHLORIDE BROMOMETHANE ND ug/] EPA 624 ND ug/1 CHLOROETHANE EPA 624 ND ug/1 0.280 ug/1* 0.470 ug/1* 6.13 ug/1* 0.290 ug/1* 0.230 ug/1* TRICHLOROFLUOROMETHANE EPA 624 ND ug/1 TERTIARY BUTYL ALCOHOL
1,1-DICHLOROETHENE EPA 624 ND uğ/1 EPA 624 ND uğ/1 METHYL TERTIARY BUTYL ETHER METHYLENE CHLORIDE TRANS-1,2-DICHLOROETHENE 1,1-DICHLOROETHANE EPA 624 EPA 624 ND uğ/] ND uğ/j 0.500 ug/1*
0.230 ug/1*
0.220 ug/1*
0.320 ug/1*
0.200 ug/1*
0.250 ug/1*
0.250 ug/1*
0.210 ug/1*
0.240 ug/1*
0.240 ug/1*
0.240 ug/1*
0.140 ug/1*
0.140 ug/1*
0.140 ug/1*
0.140 ug/1* EPA 624 ND uğ/1 EPA 624 ND uğ/1 CARBON TETRACHLORIDE CIS-1,2-DICHLOROETHENE EPA 624 EPA 624 ND uğ/] ND uğ/l EPA 624
EPA 624 CHLORÓFORM ND ug/1 ND uğ/1 1,1,1-TRICHLOROETHANE ND ug/1 BÉNZENE 1,2-DICHLOROETHANE TRICHLOROETHENE

1,2-DICHLOROPROPANE 1.85 ug/] ND uğ/] BROMODICHLOROMETHANE ND ug/1 TOLUENE ND ug/] TRANS-1,3-DICHLOROPROPENE
CIS-1,3-DICHLOROPROPENE
1,1,2-TRICHLOROETHANE
2-CHLOROETHYL VINYL ETHER
DIBROMOCHLOROMETHANE ND ug/1 EPA 624 ND ug/1 EPA 624 ND ug/1 0.490 ug/1* 0.310 ug/1* 0.300 ug/1* 0.280 ug/1* 0.220 ug/1* EPA 624 ND uğ/] EPA 624 ND uğ/1 0.440 J ug/1 ND ug/1 EPA 624 EPA 624 TETRACHLOROETHENE CHLOROBENZENE ETHYL BENZENE M&P XYLENES O-XYLENE EPA 624 ND uğ/1 0.220 ug/1* 0.400 ug/1* 0.190 ug/1* 0.250 ug/1* 0.180 ug/1* 0.250 ug/1* EPA 624 ND uğ/1 ND uğ/] EPA 624 BROMOFORM EPA 624 ND uğ/l ,1,2,2-TETRACHLOROETHANE ,3-DICHLOROBENZENE ND ug/l EPA 624 EPA 624 ND uğ/1 08/23/10 08:08PM EEW 1,4-DICHLOROBENZENE

Page 1 of 2

Serial Number: 1536329

homos Thomas J. Hines, President

OC Laboratories

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947 Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No: Inv. No: 1235149

Sample Number Sample Description Samp. Date/Time/Temp

L3483423-1 ROOSEVELT FIELD, GARDEN CITY NY* EFFLUENT 08/18/10 11:30am NA F Customer Sampled

Parameter 1,2-DICHLOROBENZENE NONE FOUND

Method EPA 624 ĒPĀ 624 LIB SR

Sampled by

ND ug/1 ND

0.200 ug/1*

Test Date, Time, Analyst 08/23/10 08:08PM EEW 08/23/10 08:08PM EEW

**** NOTES CONCERNING THE ABOVE SAMPLE ****

QUALIFIERS: For metals parameters; "B" indicates a value that is > than the MDL but < than the laboratory quantitation limit. For Organics parameters; "B"is when the compound is found in the blank as well as in the sample; "J"indicates a value that is > than the MDL but < than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search; "E"(estimated) is when a compound exceeded the calibration range; "N" presumptive evidence of a compound; "D" is when a dilution was required.

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
 All analysis, except field tests are conducted in Southampton,PA unless otherwise identified.
 The test"pH lab"is analyzed upon receipt in the laboratory, the result will not be suitable for regulatory purposes.
 The reported results relate only to the samples.
 Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=Laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count.
 A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
 QC NELAP ID's:PA 09-00131,NJ PA166,FL E87954,NY 11223,CT PH-0768,DE PA-018,KY 90228,MD 206,EPA PA00018.Bioassay:PA 09-03574,NJ PA034,FL E87953,KS E10373,SC 89020001.
 QC STATE ID's:Wind Gap,NJ PA001,PA 48-01334;E RUTHERFORD NJ02015;Vineland NJ06005; Reading PA 06-03543.
 All samples are collected as "grab" samples unless otherwise identified.
 MCL=is the EPA recommended "maximum contaminant level" for a parameter, PLs=customer specific permit limits.
 The test results meet all requirements of NELAC unless otherwise specified.
 The report shall not be reproduced except in full without the written consent of the laboratory.
 * The "RLs" represents a reporting/quantitation limit. When an "*" is present immediately following the "RLs" units, the "RLs" is the Method Detection Limit (MDL).

homos Thomas J. Hińes, President

Page 2 of 2

Serial Number: 1536329

_	
α	
C	
δ	
ш	
α	
_	
Z	

QC Laboratories	1	N OF CUSTOD)Y Lab LI	MS No: 63483423	MATRIX CODES
1205 Industrial Blvd. Phone: 215-355-3900 Southampton, PA 18966-0514 Fax: 215-355-7231	Bill to/Report to: (if diff	rage of		S USE ONLY: _ Ascorbic/HCl Vials # 4 HCl Vials	DW: DRINKING WATER GW: GROUND WATER
Client/Acct. No. INTO CHINOUNITA			#	Na ₂ S ₂ 0 ₃	WW: WASTEWATER S0: SOIL
Address 6907 A CINTON ROLLY	Sampling Site Address	s: (if different)		Na OH/Zn acetate pH	
,	ROOSEU	at FIELD		_ HNO ₃ pH	SL: SLUDGE OIL: OIL
City/State/Zip PNAURS JULE PA 18947		الله بعيد مي	#	H ₂ S0 ₄ pH NaOH pH	
Phone/Fax (2K) 766-7230	P.O. No.		•	Unpreserved	SOL: NON SOIL SOLID
Client Contact DAN FITZGIANO	QC Contact			Z) I	-MI: MISCELLANEOUS
PROJECT	Collection	G C Number of Co	intainers #5	7 Temp control ID# EH Jeel	X: OTHER
A FIELD ID	Date Military Time	A M Code Total S C 3 N	NZUB anna OAPC	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl ₂ , S. Cond. etc.
¹ /*\}	1846 11:30	لا ها با	H C é T	to plus dichlorodifloromo	LEINE PHESS
E11 223 3	71019 11 1				
<u> </u>			- AVA	0 as 1,2 dichlopoetheb	<u>\(\) </u>
	·				•
© .					
					·
			.		
9					
				·	
Ÿ					
SAMPLED BY: (Name/Company)	<u> </u>	Bonart Formati	Forms	Field Parameters Analy	zed By:
Hardcopy due:	<u> </u>	Report Format: Standard Standard + QC NJ Rec		Sig:	Date/Time:
TODO DANIC	ailability on rush (<14-2	21 day) turnaround and on all bu	it standard format.		
SAMPLE CUSTODY EXCHANGES MUST BE DOCUM	MENTED BELOW.	USE FULL LEGAL SIGNA	TURE, DATE AND	MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS	0800, 4 PM IS 1600)
RELINATION BY SAMPLED DATE 1	RECEIVED BY	00 5/4, Ward	DATES AND TIME	DELIVERY METHOD: QC COURIER CLIENT	Custody Seal Number
BETNOUISHED BY / DATE TIME			PATE / TIME		<u> </u>
27 years 8-20-10 141			0/20/10/19/	COMMENTS:	
RELINIQUISHED BY () DATE TIME	RECEIVED BY		DATE TIME		
RELINQUISHED BY DATE TIME	RECEIVED	 	DATE TIME		
4 PELINOHIGUED BY	4 RECEIVED BY		DATE TIME		
RELINQUISHED BY DATE TIME.	5 SECEIVED BY		DATETIME.	Hazardous: yes / no	



Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No:

Inv. No: 1236506

Sample Number Sample Description Samp. Date/Time/Temp Sampled by Received Temp

L3487948-1 ROOSEVELT FIELD, EFFLUENT GRAB 08/24/10 08:30am NA F Customer Sampled 36 F Iced (Y/N): Y

	р ээ			
Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MAS	SC CDECTDOM	ETDV. VOI ATH ES		
DICHLORODIFLUOROMETHANE	EPA 624	EIKI; VOLAIILES	0.620 ug/1#	08/30/10 10:31PM EEW
		2.48 ug/1	0.020 ug/ 1*	
CHLOROMETHANE	EPA 624	ND ug/]	0.430 ug/ i^	08/30/10 10:31PM EEW
VINYL CHLORIDE	EPA 624	ND ug/1	0.350 ug/ i^	08/30/10 10:31PM EEW
BROMOMETHANE	EPA 624	ND uğ/j	0.620 ug/1* 0.430 ug/1* 0.350 ug/1* 0.370 ug/1*	08/30/10 10:31PM EEW
CHLOROETHANE	EPA 624	ND uğ/ll	0.280 uq/ 1^	08/30/10 10:31PM EEW
TRICHLOROFLUOROMETHANE TERTIARY BUTYL ALCOHOL	EPA 624	ND ug/l	0.4/0 ug/ l*	08/30/10 10:31PM EEW
TERTIARY BUTYL ALCOHOL	EPA 624	ND uğ/1	6.13 ug/]*	08/30/10 10:31PM EEW
1,1-DICHLOROETHENE	EPA 624	ND ug/1	0.290 ua/1*	08/30/10 10:31PM EEW
MÉTHYL TERTIARY BUTYL ETHER	EPA 624	1.27 uğ/l	0.230 ug/1*	08/30/10 10:31PM EEW
METHYLENE CHLORIDE	EPA 624	ND uğ/ll	0.500 ug/1	08/30/10 10:31PM EEW
TRANS-1,2-DICHLOROETHENE	EPA 624 EPA 624	ND uğ/jl	0.230 ug/1*	08/30/10 10:31PM EEW
1 1-DTCHLOROFTHANE	FPA 624	ND ugʻ/ji	0.220 ug/1*	08/30/10 10:31PM EEW
CARBON TETRACHLORIDE	EPA 624	ND üğ/i	0.230 ug/1* 0.500 ug/1 0.230 ug/1* 0.220 ug/1* 0.320 ug/1*	08/30/10 10:31PM EEW
CIS-1 2-DICHLOROFTHENE	EPA 624	0.380 J ug/j	0.200 ug/1*	08/30/10 10:31PM EEW
CARBON TETRACHLORIDE CIS-1,2-DICHLOROETHENE CHLOROFORM	EPA 624	ND ug/1	0.220 ug/1*	08/30/10 10:31PM EEW
1,1,1-TRICHLOROETHANE	EPA 624	ND ug/1	0.220 ug/1 0.260 ug/1*	08/30/10 10:31PM EEW
BENZENE	EPA 624	ND ug/1	0.200 ug/1 0.220 ug/1*	08/30/10 10:31PM EEW
	EPA 624	ND ug/1	0.230 ug/ 1*	08/30/10 10:31PM EEW
1,2-DICHLOROETHANE TRICHLOROETHENE 1,2-DICHLOROPROPANE BROWODICHLOROMETHANE TOLUENE	EPA 624	ND uğ/1 8.79 ug/1	0.200 ug/1* 0.200 ug/1* 0.220 ug/1* 0.260 ug/1* 0.230 ug/1* 0.250 ug/1* 0.310 ug/1*	08/30/10 10:31PM EEW
	EPA 624 EPA 624	0./9 ug/1	0.310 ug/ 1"	08/30/10 10:31PM EEW 08/30/10 10:31PM EEW
		ND ug/1	0.220 ug/1*	
BROMODICHLOROME I HANE	EPA 624	ND ug/1	0.240 ug/1*	08/30/10 10:31PM EEW
	EPA 624	ND ug/1	0.240 ug/1* 0.170 ug/1*	08/30/10 10:31PM EEW
TRANS-1,3-DICHLOROPROPENE	EPA 624	ND ug/1	0.1/0 ug/ i*	08/30/10 10:31PM EEW
CIS-1,3-DICHLOROPROPENE	EPA 624	ND uğ/j	0.140 ug/]* 0.320 ug/]*	08/30/10 10:31PM EEW
1,1,2-TRICHLOROETHANE	EPA 624	ND uğ/jl	0.320 ug/ i*	08/30/10 10:31PM EEW
2-CHLOROETHYL VINYL ETHER	EPA 624	ND uğ/ll	0.490 ug/]*	08/30/10 10:31PM EEW
DIBROMOCHLOROMETHANE	EPA 624	_ ND uğ/ll	0.310 ug/]*	08/30/10 10:31PM EEW
TETRACHLOROETHENE	EPA 624	5.62 ug/l	0.300 ug/1* 0.280 ug/1*	08/30/10 10:31PM EEW
CHLOROBENZENE	EPA 624	ND uğ/ <u>1</u>	0.280 ug/1*	08/30/10 10:31PM EEW
ethyl benzene	EPA 624	ND uğ/ll	0.220 ug/1* 0.400 ug/1*	08/30/10 10:31PM EEW
M&P XYLENES	EPA 624	ND uğ/l	0.400 uğ/1*	08/30/10 10:31PM EEW
O-XYLENE	EPA 624	ND uğ/1	0.190 uğ/1*	08/30/10 10:31PM EEW
BROMOFORM	EPA 624	ND ug/1	0.250 ug/1*	08/30/10 10:31PM EEW
1,1,2,2-TETRACHLOROETHANE	EPA 624	ND ug/1	0.250 ug/1*	08/30/10 10:31PM EEW
1,3-DICHLOROBENZENE	EPA 624	ND ũg/i	0.180 ug/i*	08/30/10 10:31PM EEW
1,4-DICHLOROBENZENE	EPA 624	ND ug/1	0.250 ug/1*	08/30/10 10:31PM EEW
I TO I DIO I LONGO LINE LINE	LI A OLT	ND dg/ I	0.200 ug/ i	00/00/10 10:01/1/ LLW

Page 1 of 2

Serial Number: 1542810

Thomas / Hmes Thomas J. Hines, President

OC Laboratories

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947 Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No: Inv. No: 1236506

Sample Number Sample Description Samp. Date/Time/Temp

Sampled by

L3487948-1 ROOSEVELT FIELD, EFFLUENT GRAB 08/24/10 O8:30am NA F Customer Sampled

Test Date, Time, Analyst 08/30/10 10:31PM EEW 08/30/10 10:31PM EEW Parameter Method 1,2-DICHLOROBENZENE NONE FOUND ND ug/1 ND EPA 624 0.200 ug/1* ĒPĀ 624 LIB SR

**** NOTES CONCERNING THE ABOVE SAMPLE ****

QUALIFIERS: For metals parameters; "B" indicates a value that is > than the MDL but < than the laboratory quantitation limit. For Organics parameters; "B"is when the compound is found in the blank as well as in the sample; "J"indicates a value that is > than the MDL but < than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search; "E"(estimated) is when a compound exceeded the calibration range; "N" presumptive evidence of a compound; "D" is when a dilution was required.

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
 All analysis, except field tests are conducted in Southampton,PA unless otherwise identified.
 The test"pH lab"is analyzed upon receipt in the laboratory, the result will not be suitable for regulatory purposes.
 The reported results relate only to the samples.
 Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=Laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count.
 A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
 QC NELAP ID's:PA 09-00131,NJ PA166,FL E87954,NY 11223,CT PH-0768,DE PA-018,KY 90228,MD 206,EPA PA00018.Bioassay:PA 09-03574,NJ PA034,FL E87953,KS E10373,SC 89020001.
 QC STATE ID's:Wind Gap,NJ PA001,PA 48-01334;E RUTHERFORD NJ02015;Vineland NJ06005; Reading PA 06-03543.
 All samples are collected as "grab" samples unless otherwise identified.
 MCL=is the EPA recommended "maximum contaminant level" for a parameter, PLs=customer specific permit limits.
 The test results meet all requirements of NELAC unless otherwise specified.
 The report shall not be reproduced except in full without the written consent of the laboratory.
 * The "RLs" represents a reporting/quantitation limit. When an "*" is present in the column identified as the "RLs", it is being reported as a Method Detection Limit or MDL.

Thomas / Homes Thomas J. Hińes, President

Page 2 of 2

Serial Number: 1542810

Œ
~
U
Ō.
ш
Œ
_1
_
◂
-
_
匝
_

AWO"	789		
QC Laboratories	CHAIN OF CUSTODY	Lab LIMS No: 23487948	MATRIX CODES
1205 Industrial Blvd. Phone: 215-355-3900 Southampton, PA 18966-0514 Fax: 215-355-7231	Bill to/Report to: (if different)	# Ascorbic/HCI Vials #/ HCI Vials	DW: DRINKING WATER GW: GROUND WATER
Client/Acct. No. TLATEX ELVAROUNCETAL	:	# Na ₂ S ₂ 0 ₃	WW: WASTEWATER SO: SOIL
Address 6507 A CASTON ROAY	Sampling Site Address: (if different) Restout	# Na OH/Zn acetate pH	SL: SLUDGE
	400 RING ROAD	# HNO ₃ pH # H ₂ SO ₄ pH	OIL: OIL
City/State/Zip Phase July PA 18947	GAROUN CTTY NY	# NaOH pH	SOL: NON SOIL SOLID
Phone/Fax (2KS) 766-7230	P.O. No.	# Unpreserved	MI: MISCELLANEOUS
Client Contact PAN FM6ERAS	QC Contact Collection G C Number of Contain	# Hcl pH	X: OTHER
PROJECT	R O Matrix	10 8 TE 36+ HENCE	Field pH, Temp (C or F),
A FIELD ID		ANALYSIS REQUESTED	DO, Cl ₂ , S. Cond. etc.
B 12FFWWX 8	-240 8:30 × 60 4 4	WA to Aus dichlorodifloro	· 1
		Ans cis 1,2 dichloracthyle	<u> </u>
			
5			
W			
SAMPLED BY: (Name/Company)			
Verbal/fax data due: Hardcopy due: /	Report Format: Standard Standard + QC NJ Reduce		Date/Time:
71708	ailability on rush (<14-21 day) turnaround and on all but sta	<u> </u>	
		RE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM	
RELINOUISHOUSY SAPPLER DATE DATE TIME 1 094	o RECEIVED BY BAT	TIME DELIVERY METHOD: QC COURIER CLIE	NT Custody Seal Number
RELINQUISHED BY TIME		COMMENTS:	
RELINQUISHED BY DATE TIME	RECEIVED BY DAT		
3 RELINQUISHED BY DATE TIME	RECEIVED BY DAT		
4 DATE TIME	4	L IIVIL	
RELINQUISHED BY DATE TIME 5	RECEIVED BY DAT	TIME Hazardous: yes / no	

For example to aid completion, see reverse side.



Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947 Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC.

Project No: AW0789 FITZGERALD, INTEX INC.

PWSID No:

Inv. No: 1242272

Sample Number Sample Description Samp. Date/Time/Temp Sampled by

L3501663-1 ROOSEVELT FIELD* EFFLUENT GRAB 09/02/10 02:30pm NA F Customer Sampled

Received Temp Iced (Y/N): Y Parameter Method RLs Test Date, Time, Analyst Result. GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES
DICHLORODIFLUOROMETHANE EPA 624
CHLOROMETHANE EPA 624
VINVL CHLORIDE EPA 624
EPA 624
EPA 624 7.27 ug/<u>1</u> 0.620 ug/1* 09/08/10 05:43PM EEW 0.430 ug/1* 0.350 ug/1* 0.370 ug/1* 0.280 ug/1* ND uğ/1 09/08/10 05:43PM EEW VINYL CHLORIDE BROMOMETHANE 09/08/10 05:43PM EEW ND ug/] EPA 624 ND ug/1 09/08/10 05:43PM EEW CHLOROETHANE EPA 624 ND ug/1 09/08/10 05:43PM EEW 0.280 ug/1* 0.470 ug/1* 6.13 ug/1* 0.290 ug/1* 0.230 ug/1* TRICHLOROFLUOROMETHANE 09/08/10 05:43PM EEW EPA 624 3.28 ug/1 TERTIARY BUTYL ALCOHOL 1,1-DICHLOROETHENE ND ug/1 0.470 J ug/1 0.480 J ug/1 EPA 624 09/08/10 05:43PM 09/08/10 05:43PM EEW EPA 624 METHYL TERTIARY BUTYL ETHER METHYLENE CHLORIDE TRANS-1,2-DICHLOROETHENE 1,1-DICHLOROETHANE EPA 624 EPA 624 09/08/10 05:43PM 09/08/10 05:43PM NŌ uğ/<u>]</u> 0.500 ug/1 0.230 ug/1* 0.220 ug/1* 0.320 ug/1* 0.200 ug/1* 0.200 ug/1* 0.250 ug/1* 0.250 ug/1* 0.210 ug/1* 0.240 ug/1* 0.240 ug/1* 0.240 ug/1* 0.170 ug/1* 0.140 ug/1* 0.140 ug/1* EPA 624 ND uğ/1 09/08/10 05:43PM ND uğ/1 EPA 624 09/08/10 05:43PM CARBON TETRACHLORIDE CIS-1,2-DICHLOROETHENE EPA 624 EPA 624 ND uğ/] 09/08/10 05:43PM 0.940 J uğ/1 09/08/10 05:43PM EEW EPA 624
EPA 624 NĎ ug/1 NĎ ug/1 CHLORÓFORM 09/08/10 05:43PM EEW 09/08/10 05:43PM EEW 1,1,1-TRICHLOROETHANE ND ug/1 BÉNZENE 1,2-DICHLOROETHANE 09/08/10 05:43PM EEW 09/08/10 05:43PM FFW 09/08/10 05:43PM EEW 09/08/10 05:43PM EEW 09/08/10 05:43PM EEW TRICHLOROETHENE

1,2-DICHLOROPROPANE 9.53 ug/1 ND uğ/] BROMODICHLOROMETHANE ND ug/1 TOLUENE ND ug/] 09/08/10 05:43PM EEW TRANS-1,3-DICHLOROPROPENE
CIS-1,3-DICHLOROPROPENE
1,1,2-TRICHLOROETHANE
2-CHLOROETHYL VINYL ETHER
DIBROMOCHLOROMETHANE 09/08/10 05:43PM EEW ND ug/1 EPA 624 09/08/10 05:43PM ND ug/1 09/08/10 05:43PM EEW EPA 624 ND ug/1 0.490 ug/1* 0.310 ug/1* 0.300 ug/1* 0.280 ug/1* 0.220 ug/1* 09/08/10 05:43PM EEW 09/08/10 05:43PM EEW EPA 624 ND ug/1 EPA 624 ND uğ/1 EPA 624 EPA 624 09/08/10 05:43PM EEW 09/08/10 05:43PM EEW 9.68 uğ/1 TETRACHLOROETHENE **CHLOROBENZENE** ND uğ/] ETHYL BENZENE M&P XYLENES O-XYLENE EPA 624 ND uğ/1 09/08/10 05:43PM EPA 624 ND uğ/1 0.400 ug/1* 09/08/10 05:43PM 0.190 ug/1* 0.250 ug/1* 0.250 ug/1* 0.180 ug/1* 0.250 ug/1* ND uğ/l EPA 624 09/08/10 05:43PM EEW BROMOFORM EPA 624 ND uğ/1 09/08/10 05:43PM EEW ,1,2,2-TETRACHLOROETHANE ,3-DICHLOROBENZENE ND ug/l 09/08/10 05:43PM EEW EPA 624 EPA 624 ND uğ/l 09/08/10 05:43PM EEW

Page 1 of 2

1,4-DICHLOROBENZENE

Serial Number: 1548489

homos Thomas J. Hines, President

09/08/10 05:43PM EEW

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947 Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No: Inv. No: 1242272

Sample Number Sample Description Samp. Date/Time/Temp Sampled by

L3501663-1 ROOSEVELT FIELD* EFFLUENT GRAB 09/02/10 02:30pm NA F Customer Sampled

Test Date, Time, Analyst 09/08/10 05:43PM EEW 09/08/10 05:43PM EEW Parameter Method Result 1,2-DICHLOROBENZENE SULFUR DIOXIDE EPA 624 ND ug/ 0.200 ug/1* 3.53 JN ug/1 ĒPĀ 624 LIB SR

**** NOTES CONCERNING THE ABOVE SAMPLE ****

QUALIFIERS: For metals parameters; "B" indicates a value that is > than the MDL but < than the laboratory quantitation limit. For Organics parameters; "B"is when the compound is found in the blank as well as in the sample; "J"indicates a value that is > than the MDL but < than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search; "E"(estimated) is when a compound exceeded the calibration range; "N" presumptive evidence of a compound; "D" is when a dilution was required.

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
 All analysis, except field tests are conducted in Southampton,PA unless otherwise identified.
 The test"pH lab"is analyzed upon receipt in the laboratory, the result will not be suitable for regulatory purposes.
 The reported results relate only to the samples.
 Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=Laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count.
 A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
 QC NELAP ID's:PA 09-00131,NJ PA166,FL E87954,NY 11223,CT PH-0768,DE PA-018,KY 90228,MD 206,EPA PA00018.Bioassay:PA 09-03574,NJ PA034,FL E87953,KS E10373,SC 89020001.
 QC STATE ID's:Wind Gap,NJ PA001,PA 48-01334;E RUTHERFORD NJ02015;Vineland NJ06005; Reading PA 06-03543.
 All samples are collected as "grab" samples unless otherwise identified.
 MCL=is the EPA recommended "maximum contaminant level" for a parameter, PLs=customer specific permit limits.
 The test results meet all requirements of NELAC unless otherwise specified.
 The report shall not be reproduced except in full without the written consent of the laboratory.
 * The "RLs" represents a reporting/quantitation limit. When an "*" is present in the column identified as the "RLs", it is being reported as a Method Detection Limit or MDL.

Thomas / Homes Thomas J. Hińes, President

Page 2 of 2

Serial Number: 1548489

l	ı.
1	•
	Н
	Œ
	O
	Δ
	Ш
	Œ
	_
	⋖
	Z
	正

© QC Laboratories		N OF CUSTO	OY .	Lab LIMS No: 1350/663	MATRIX CODES
1205 Industrial Blvd. Phone: 215-355-390 Southampton, PA 18966-0514 Fax: 215-355-723 Client/Acct. No. Address 6967 A PASON ROLL	Bill to/Report to: (if di	es: (if different)		# Ascorbic/HCI Vials # HCI Vials # Na ₂ S ₂ O ₃ # Na OH/Zn acetate pH # HNO ₃ pH	DW: DRINKING WATER GW: GROUND WATER WW: WASTEWATER SO: SOIL SL: SLUDGE
City/State/Zip Phone/Fax 215 766 7250		OCILLA INFA		# H ₂ S0 ₄ pH # NaOH pH	OIL: OIL SOL: NON SOIL SOLID
Client Contact OAN FIT 2648AV				# Unpreserved # Hcl pH	MI: MISCELLANEOUS X: OTHER
PROJECT FIELD ID	Collection Date Military Time	G C Matrix A M Code Total S C a N N N N N N N N N N N N N N N N N N	Ontainers N Z U B a n n a O A P C H C e T	#Temp control # ANALYSIS RÉQUESTED	Field pH, Temp (C or F), , DO, Cl ₂ , S. Cond. etc.
BEFRUUN	C-12-10 14:30	x 66 4 X		UDA + 10 PLDS dichloro difloro	
				AMS CIS 1,2, dichloroetho	CAC ASSESSED
S					
(O)					
C C C C C C C C C C C C C C C C C C C					
SAMDI ED BY: (Name/Company)		Report Format: □ Standard	I □ Forme	Field Parameters Analy	zed By
		Standard + QC	educed Di	isk Sig: mat.	Date/Time:
RELINQUISHED BY SMIPLES DATE OF 3/10 TIME			DATE AND DATE	TIME COMMENTS	
RELINDUISHED BY DATE TIME	RECEIVED BY		DATE	TIME	
RELINQUISHED BY DATE TIM 4 TIM TIM RELINQUISHED BY DATE TIM	4		DATE	TIME	
5	5			Hazardous: yes / no	

For example to aid completion, see reverse side.

QC LABORATORIES FIELD SERVICE REQUEST FORM Sep 02 2010, 03:25 pm

Project No.: AW0789 FITZGERALD

Cell: (

Phone: (215)766-7230

Fax: (215)766-9730

)

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

, PA 18947

Primary Driver: JCN

Service Date: 09/03/10 - PICKUP... To 09/03/10

PICK-UP

Delivery Charge:

Day of Week: FRI

Sampling Instructions:

Contact: TODD OR DAN

Bottle Prep: Rush Samples:

Service to be performed at:

PLEASE SCHEDULE... PICKUP... FOR FRIDAY 9/3/10ROSEVELT FIELD VOCS 624-MTX+LS INCLUDE DICHLORODIFLUOROMETHANE, CIS-1,2-DICHLOROETHYLENE.

Requested by: Robert F. Hulit Ext: Entry date: 09/02/10 03:25PM

Call received: 09/02/10 03:23PM

Field Service Request No.: FS142995

Service Time: 10 minutes

Equip Code: PU



Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947 Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC.

Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No: Inv. No: 1243421

Sample Number Sample Description Samp. Date/Time/Temp Sampled by L3504489-1
R00SEVELT FIELD* 9/8 EFFLUENT
09/08/10 12:15am NA F
Customer Sampled
35 F Iced (Y/N): Y

Received Temp RLs Parameter Method Test Date, Time, Analyst Result GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES
DICHLORODIFLUOROMETHANE EPA 624
CHLOROMETHANE EPA 624
VINUE EPA 624
FDA 624 ND ug/1 0.620 ug/1* 09/15/10 11:37PM EEW 0.620 ug/1* 0.430 ug/1* 0.350 ug/1* 0.370 ug/1* 0.280 ug/1* 0.470 ug/1* 6.13 ug/1* 0.290 ug/1* 0.500 ug/1 ND uğ/1 09/15/10 11:37PM EEW 09/15/10 11:37PM EEW VINYL CHLORIDE BROMOMETHANE ND ug/] EPA 624 09/15/10 11:37PM ND ug/1 FFW 09/15/10 11:37PM 09/15/10 11:37PM **EPA 624** CHLOROETHANE ND ug/1 EEW TRICHLOROFLUOROMETHANE EPA 624 ND ug/1 TERTIARY BUTYL ALCOHOL 1,1-DICHLOROETHENE 09/15/10 11:37PM 09/15/10 11:37PM EPA 624 ND uğ/] EPA 624 ND uğ/1 METHYL TERTIARY BUTYL ETHER METHYLENE CHLORIDE TRANS-1,2-DICHLOROETHENE 1,1-DICHLOROETHANE 0.310 J ug/1 ND ug/1 09/15/10 11:37PM 09/15/10 11:37PM 09/15/10 11:37PM 09/15/10 11:37PM EPA 624 EPA 624 0.500 ug/1 0.230 ug/1* 0.220 ug/1* 0.320 ug/1* 0.200 ug/1* 0.200 ug/1* 0.250 ug/1* 0.250 ug/1* 0.210 ug/1* 0.240 ug/1* 0.240 ug/1* 0.240 ug/1* 0.170 ug/1* 0.140 ug/1* 0.140 ug/1* EPA 624 ND uğ/] ND uğ/1 EPA 624 CARBON TETRACHLORIDE CIS-1,2-DICHLOROETHENE EPA 624 EPA 624 ND uğ/] 09/15/10 11:37PM ND uğ/l 09/15/10 11:37PM EEW EPA 624
EPA 624 09/15/10 11:37PM EEW 09/15/10 11:37PM EEW CHLORÓFORM ND uğ/] ND uğ/1 1,1,1-TRICHLOROETHANE 09/15/10 11:37PM EEW BÉNZENE 1,2-DICHLOROETHANE ND uğ/] ND uğ/l 0.590 J ug/1 ND ug/1 TRICHLOROETHENE

1,2-DICHLOROPROPANE BROMODICHLOROMETHANE ND uğ/1 09/15/10 11:37PM EEW 09/15/10 11:37PM EEW TOLUENE ND uğ/1 TRANS-1,3-DICHLOROPROPENE
CIS-1,3-DICHLOROPROPENE
1,1,2-TRICHLOROETHANE
2-CHLOROETHYL VINYL ETHER
DIBROMOCHLOROMETHANE ND ug/1 09/15/10 11:37PM 09/15/10 11:37PM 09/15/10 11:37PM 09/15/10 11:37PM EPA 624 ND ug/1 EPA 624 ND ug/1 0.490 ug/1* 0.310 ug/1* 0.300 ug/1* 0.280 ug/1* 0.220 ug/1* EPA 624 ND uğ/] EEW EPA 624 ND uğ/1 0.950 J ug/1 ND ug/1 09/15/10 11:37PM 09/15/10 11:37PM EPA 624 EPA 624 TETRACHLOROETHENE **CHLOROBENZENE** ETHYL BENZENE M&P XYLENES O-XYLENE 09/15/10 11:37PM 09/15/10 11:37PM EPA 624 ND uğ/1 0.220 ug/1* 0.400 ug/1* 0.190 ug/1* 0.250 ug/1* 0.180 ug/1* 0.250 ug/1* EPA 624 ND uğ/1 ND uğ/] EPA 624 09/15/10 11:37PM EEW BROMOFORM EPA 624 ND uğ/l 09/15/10 11:37PM EEW 09/15/10 11:37PM EEW 09/15/10 11:37PM EEW ,1,2,2-TETRACHLOROETHANE ,3-DICHLOROBENZENE ND ug/l EPA 624 EPA 624 ND uğ/1 1,4-DICHLOROBENZENE 09/15/10 11:37PM EEW

Page 1 of 10

Serial Number: 1557529

Thomas | Ames
Thomas J. Hines, President

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947 Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No: Inv. No: 1243421

Sample Number Sample Description Samp. Date/Time/Temp L3504489-1 ROOSEVELT FIELD* 9/8 EFFLUENT 09/08/10 12:15am NA F Customer Sampled

Samp. Date/Inne/lemp 09/08/10 12:15am NA F Sampled by Customer Sampled

Arameter Method Result

Text Date, Time, Analyst 1,2-DICHLOROBENZENE EPA 624 ND ug/l 0.200 ug/l* 09/15/10 11:37PM EEW NONE FOUND EPA 624 LIB SR ND 09/15/10 11:37PM EEW O9/15/10 11:37PM EEW OP/15/10 11:

Page 2 of 10 Serial Number: 1557529

Thomas J. Hines, President

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No:

Inv. No: 1243421

Sample Number Sample Description Samp. Date/Time/Temp Sampled by Received Temp

L3504489-2 9/8 EFFLUENT GRAB 09/08/10 01:48pm NA F Customer Sampled 35 F Iced (Y/N): Y

	•	` '		
Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MAS	S SPECTRON	ETRY: VOLATILES		
DICHLORODIFLUOROMETHANE	EPA 624	ND ug/1	0.620 ug/1*	09/16/10 12:13AM EEW
CHLOROMETHANE	EPA 624	ND ug/1	0.430 ug/1*	09/16/10 12:13AM EEW
VINYL CHLORIDE	EPA 624	ND ug/1	0.450 ug/1*	09/16/10 12:13AM EEW
BROMOMETHANE	EPA 624		0.350 ug/1* 0.370 ug/1*	09/16/10 12:13AM EEW
	EPA 024	ND ug/1	0.3/0 ug/ i^	
CHLOROETHANE	EPA 624	ND ug/1	0.280 ug/]*	09/16/10 12:13AM EEW
TRICHLOROFLUOROMETHANE TERTIARY BUTYL ALCOHOL	EPA 624	ND ug/l	0.470 ug/]*	09/16/10 12:13AM EEW
TERITARY BUTYL ALCOHOL	EPA 624	ND uğ/ll	6.13 ug/]*	09/16/10 12:13AM EEW
1,1-DICHLOROETHENE		ND ug/1	0.290 uğ/]*	09/16/10 12:13AM EEW
MÉTHYL TERTIARY BUTYL ETHER	EPA 624	0.350 J uğ/1	0.230 uğ/]*	09/16/10 12:13AM EEW
METHYLENE CHLORIDE	EPA 624	ND uğ/ <u>1</u>	0.500 ug/1	09/16/10 12:13AM EEW
TRANS-1,2-DICHLOROETHENE	EPA 624	ND ug/1	0.230 ug/1*	09/16/10 12:13AM EEW
1,1-DICHLOROETHANE	EPA 624 EPA 624	ND uğ/ <u>1</u>	0.500 ug/1 0.230 ug/1* 0.220 ug/1*	09/16/10 12:13AM EEW
CARRON TETRACHLORIDE	FPA 624	ND uğ/1	0.320 ug/]*	09/16/10 12:13AM EEW
CIS-1,2-DICHLOROETHENE	EPA 624	ND uğ/1	0.200 ug/1*	09/16/10 12:13AM EEW
CIS-1,2-DICHLOROETHENE CHLOROFORM	EPA 624	ND uğ/1	0.220 ug⊄1*	09/16/10 12:13AM EEW
1 1 1 7010 000 00 000	EDA COA	ND ug/1	0.260 ug/1*	09/16/10 12:13AM EEW
BENZENE	EPA 624	ND ũg/1	0.230 ua/1*	09/16/10 12:13AM EEW
1.2-DICHLOROFTHANE	EPA 624	ND ug/i	0.250 ug/1*	09/16/10 12:13AM EEW
1,1,1=IRICHLOROE I HANE BENZENE 1,2-DICHLOROETHANE TRICHLOROETHENE 1,2-DICHLOROPROPANE BROMODICHLOROMETHANE TOLUENE	EPA 624	ND ug/1	0.250 ug/1* 0.310 ug/1*	09/16/10 12:13AM EEW
1 2-DICHLOROPROPANE	EPA 624	ND ug/1	0.220 ug/1*	09/16/10 12:13AM EEW
BROMODICHI OROMETHANE	EPA 624	ND ug/1	0.240 ug/1*	09/16/10 12:13AM EEW
TOURNE	EPA 624	ND ug/1	0.240 ug/1*	09/16/10 12:13AM EEW
TRANS-1,3-DICHLOROPROPENE	EPA 624	ND ug/1	0.170 ug/1*	09/16/10 12:13AM EEW
CIS-1,3-DICHLOROPROPENE	EPA 624	ND ug/1	0.140 ug/]*	09/16/10 12:13AM EEW
1,1,2-TRICHLOROETHANE	EPA 624	ND ug/1	0.320 ug/]*	09/16/10 12:13AM EEW
2-CHLOROETHYL VINYL ETHER	EPA 624	ND ug/1	0.490 ug/1*	09/16/10 12:13AM EEW
DIBROMOCHLOROMETHANE	EPA 624	ND ug/1	0.490 ug/1*	09/16/10 12:13AM EEW 09/16/10 12:13AM EEW
		ND ug/1	0.310 ug/ 1*	09/10/10 12:13AM EEW
TETRACHLOROETHENE	EPA 624	ND ug/1	0.300 ug/1* 0.280 ug/1*	09/16/10 12:13AM EEW
CHLOROBENZENE	EPA 624	ND ug/1	0.280 ug/ i^	09/16/10 12:13AM EEW
ETHYL BENZENE	EPA 624	ND ug/]	0.220 ug/]*	09/16/10 12:13AM EEW
M&P XYLENES	EPA 624	ND ug/1	0.400 uğ/]*	09/16/10 12:13AM EEW
O-XYLENE	EPA 624	ND ug/j	0.190 ug/]*	09/16/10 12:13AM EEW
BROMOFORM	EPA 624	ND ug/j	0.250 ug/1*	09/16/10 12:13AM EEW
1,1,2,2-TETRACHLOROETHANE	EPA 624	ND ug/l	0.250 ug/]*	09/16/10 12:13AM EEW
1,3-DICHLOROBENZENE	EPA 624	ND ug/l	0.180 ug/]*	09/16/10 12:13AM EEW
1,4-DICHLOROBENZENE	EPA 624	ND ug/1	0.250 uğ/1*	09/16/10 12:13AM EEW

Page 3 of 10 Serial Number: 1557529 Thomas J. Hines, President

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947 Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No: Inv. No: 1243421

Sample Number Sample Description Samp. Date/Time/Temp Sampled by

L3504489-2 9/8 EFFLUENT GRAB 09/08/10 01:48pm Customer Sampled

Text Date, Time, Analyst 1,2-DICHLOROBENZENE EPA 624 ND ug/l 0.200 ug/l* 09/16/10 12:13AM EEW NONE FOUND EPA 624 LIB SR ND 09/16/10 12:13AM EEW O9/16/10 12:13AM EEW OP/16/10 12:

homos Thomas J. Hines, President

Page 4 of 10

Serial Number: 1557529

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No:

Inv. No: 1243421

Sample Number Sample Description Samp. Date/Time/Temp Sampled by Received Temp

L3504489-3 9/9 EFFLUENT GRAB 09/09/10 03:21am NA F Customer Sampled 35 F Iced (Y/N): Y

Danamakan		Dec. 14	DI a	Took Data Time Amalust
Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MAS	S SPECTROM	ETRY: VOLATILES		
DICHLORODIFLUOROMETHANE	EPA 624	ND ug/1	0.620 ug/1*	09/16/10 12:50AM EEW
CHLOROMETHANE	EPA 624	ND ug/1	0.430 ua/1*	09/16/10 12:50AM EEW
VINYL CHLORIDE	EPA 624	ND uğ/ <u>1</u>	0.350 ug/1* 0.370 ug/1*	09/16/10 12:50AM EEW
BROMOMETHANE	EPA 624	ND ug/1	0.370 ug/1*	09/16/10 12:50AM EEW
CHLOROETHANE	EPA 624	ND ug/1	0.280 uğ/]*	09/16/10 12:50AM EEW
TRICHLOROFLUOROMETHANE	EPA 624	ND ug/]	0.470 uğ/]*	09/16/10 12:50AM EEW
CHLUROE HANE TRICHLOROFLUOROMETHANE TERTIARY BUTYL ALCOHOL 1,1-DICHLOROETHENE	EPA 624 EPA 624	ND ug/1	6.13 ug/]*	09/16/10 12:50AM EEW
METHYL TERTIARY BUTYL ETHER	EPA 624 EPA 624	ND uğ/1 0.300 J ug/1	0.290 uğ/]* 0.230 ug/]*	09/16/10 12:50AM EEW 09/16/10 12:50AM EEW
METHYLENE CHLORIDE	FDA 624	0.300 3 ug/ 1 ND ug/ 1	0.230 ug/ i ^m 0.500 ug/ l	09/16/10 12:50AM EEW
TRANS-1,2-DICHLOROETHENE	EPA 624 EPA 624	ND ug/1	0.500 ug/1 0.230 ug/1*	09/16/10 12:50AM EEW
1 1_DTCHLOROFTHANE	FPA 624	ND ug/1	0.220 ug/1*	09/16/10 12:50AM EEW
CÁRBON TETRACHLORIDE	EPA 624	ND üğ/İ	0.320 ug/1*	09/16/10 12:50AM EEW
CIS-1,2-DICHLOROETHENE	EPA 624	ND uğ/ <u>1</u>	0.200 uq/1*	09/16/10 12:50AM EEW
CARBON TETRACHLORIDE CIS-1,2-DICHLOROETHENE CHLOROFORM 1,1,1-TRICHLOROETHANE	EPA 624	ND ug/1	0.220 ug/1*	09/16/10 12:50AM EEW
1,1,1-TRICHLOROETHANE	EPA 624	ND uğ/jl	0.260 ua/1*	09/16/10 12:50AM EEW
	EPA 624	ND ug/j	0.230 uğ/ <u>1</u> *	09/16/10 12:50AM EEW
BENZENE 1,2-DICHLOROETHANE TRICHLOROETHENE 1,2-DICHLOROPROPANE BROMODICHLOROMETHANE TOLUENE	EPA 624	ND ug/1	0.250 ug/1* 0.310 ug/1*	09/16/10 12:50AM EEW
1 2 DICULODODDODANE	EPA 624 EPA 624	ND ug/1	0.310 ug/ 1* 0.220 ug/ 1*	09/16/10 12:50AM EEW 09/16/10 12:50AM EEW
I,Z-DICHLOROPROPANE	EPA 624 EPA 624	ND ug/1 ND ug/1	0.240 ug/1*	09/16/10 12:50AM EEW 09/16/10 12:50AM EEW
TOLUENE	EPA 624	ND ug/1	0.240 ug/1*	09/16/10 12:50AM EEW
TRANS-1,3-DICHLOROPROPENE	EPA 624	ND ug/1	0.170 ug/1*	09/16/10 12:50AM EEW
CIS-1,3-DICHLOROPROPENE	EPA 624	ND ug/1	0.140 ug/1*	09/16/10 12:50AM EEW
1,1,2-TRICHLOROETHANE	EPA 624	ND üğ/İ	0.320 ug/1*	09/16/10 12:50AM EEW
2-CHLOROETHYL VINYL ETHER	EPA 624 EPA 624	ND ug/1	0.320 ug/1* 0.490 ug/1*	09/16/10 12:50AM EEW
DIBROMOCHLOROMETHANE	EPA 624	ND ug/1	0.310 ug/l*	09/16/10 12:50AM EEW
TETRACHLOROETHENE	EPA 624	ND ug/l	0.300 ug/l*	09/16/10 12:50AM EEW
CHLOROBENZENE	EPA 624	ND uğ/j	0.280 uğ/]*	09/16/10 12:50AM EEW
ETHYL BENZENE	EPA 624	ND ug/]	0.220 uğ/1*	09/16/10 12:50AM EEW
M&P XYLENES O-XYLENE	EPA 624	ND uğ/1	0.400 uğ/]*	09/16/10 12:50AM EEW 09/16/10 12:50AM EEW
BROMOFORM	EPA 624 EPA 624	ND ug/1 ND ug/1	0.190 uğ/]* 0.250 ug/]*	09/16/10 12:50AM EEW 09/16/10 12:50AM EEW
1,1,2,2-TETRACHLOROETHANE	EPA 624	ND ug/1	0.250 ug/1*	09/16/10 12:50AM EEW
1,3-DICHLOROBENZENE	EPA 624	ND ug/1	0.180 ug/1*	09/16/10 12:50AM EEW
1,4-DICHLOROBENZENE	EPA 624	ND ug/1	0.250 ug/1*	09/16/10 12:50AM EEW

Page 5 of 10 Serial Number: 1557529 Thomas J. Hines, President

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947 Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No: Inv. No: 1243421

Sample Number Sample Description Samp. Date/Time/Temp Sampled by

L3504489-3 9/9 EFFLUENT GRAB 09/09/10 03:21am Customer Sampled

Serial Number: 1557529

Text Date, Time, Analyst 1,2-DICHLOROBENZENE EPA 624 ND ug/l 0.200 ug/l* 09/16/10 12:50AM EEW NONE FOUND EPA 624 LIB SR ND 09/16/10 12:50AM EEW O9/16/10 12:50AM EEW OP/16/10 12: Test Date, Time, Analyst 09/16/10 12:50AM EEW 09/16/10 12:50AM EEW_

homos Thomas J. Hines, President

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No:

Inv. No: 1243421

Sample Number Sample Description Samp. Date/Time/Temp Sampled by Received Temp

L3504489-4 9/9 EFFLUENT GRAB 09/09/10 04:55pm NA F Customer Sampled 35 F Iced (Y/N): Y

	•	` '		
Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MAS	SS SPECTRON	TETRY: VOLATILES		
DICHLORODIFLUOROMETHANE	EPA 624	ND ug/1	0.620 ug/1*	09/16/10 01:26AM EEW
CHLOROMETHANE	EPA 624	ND ug/1	0.430 ug/1*	09/16/10 01:26AM EEW
	EPA 624		0.430 ug/1*	
VINYL CHLORIDE	EPA 024	ND ug/]	0.350 ug/1* 0.370 ug/1*	09/16/10 01:26AM EEW
BROMOMETHANE	EPA 624	ND ug/]	0.3/0 ug/ i^	09/16/10 01:26AM EEW
CHLOROETHANE	EPA 624	ND uğ/ll	0.2 <u>8</u> 0 ug/]*	09/16/10 01:26AM EEW
TRICHLOROFLUOROMETHANE	EPA 624	ND ug/ <u>1</u>	0.470 uğ/]*	09/16/10 01:26AM EEW
TERTIARY BUTYL ALCOHOL	EPA 624	ND ug/1	6.13 uğ/]*	09/16/10 01:26AM EEW
1,1-DICHLOROETHENE	EPA 624	ND uğ/l	0.290 ug/1*	09/16/10 01:26AM EEW
MÉTHYL TERTIARY BUTYL ETHER	EPA 624	0.410 J uğ/l	0.230 ua/1*	09/16/10 01:26AM EEW
METHYLENE CHLORIDE	FPA 624	ND uğ/ <u>1</u>	0.500 ug/1	09/16/10 01:26AM EEW
TRANS-1,2-DICHLOROETHENE	FPA 624	ND uğ/j	0.230 uď/1*	09/16/10 01:26AM EEW
1,1-DICHLOROETHANE	EPA 624 EPA 624	ND ug/j	0.500 ug/1 0.230 ug/1* 0.220 ug/1*	09/16/10 01:26AM EEW
CADRON TETRACHIODIDE	FDA 624	ND ug/1	0.320 ug/1*	09/16/10 01:26AM EEW
CIS-1,2-DICHLOROETHENE	EPA 624	ND ug/i	0.200 ug/1*	09/16/10 01:26AM EEW
CHLOROFORM	EPA 624	ND ug/1	0.220 ug/1*	09/16/10 01:26AM EEW
	EPA 024	ND ug/1	0.220 ug/ 1*	
1,1,1-TRICHLOROETHANE	EPA 624	ND ug/1	0.260 ug/1*	09/16/10 01:26AM EEW
BENZENE 1 O DECLI ODGETI IAME	EPA 624	ND ug/1	0.230 ug/]*	09/16/10 01:26AM EEW
1,2-DICHLOROETHANE TRICHLOROETHENE 1,2-DICHLOROPROPANE BROWNDTCHI ODOMETHANE	EPA 624	ND ug/1	0.250 ug/]*	09/16/10 01:26AM EEW
IRICHLOROETHENE	EPA 624	ND uğ/ll	0.310 ug/1*	09/16/10 01:26AM EEW
1,2-DICHLOROPROPANE	EPA 624	ND ug/ <u>1</u>	0.220 uğ/]*	09/16/10 01:26AM EEW
DROHODICI ILOROHLII IANL	EPA 624	ND uğ/l	0.240 ug/1*	09/16/10 01:26AM EEW
TOLUENE	EPA 624	ND ug/1	0.240 uğ/1*	09/16/10 01:26AM EEW
TRANS-1,3-DICHLOROPROPENE	EPA 624	ND uğ/1	0.170 uā/1*	09/16/10 01:26AM EEW
CIS-1,3-DICHLOROPROPENE	EPA 624	ND uğ/l	0.140 ug/1*	09/16/10 01:26AM EEW
1,1,2-TRICHLOROETHANE	EPA 624	ND ug/1	0.140 ug/1* 0.320 ug/1*	09/16/10 01:26AM EEW
2-CHLOROETHYL VINYL ETHER	EPA 624	ND ug/1	0.490 ug/1*	09/16/10 01:26AM EEW
DIBROMOCHLOROMETHANE	EPA 624	ND ug/1	0.310 ug/1*	09/16/10 01:26AM EEW
TETRACHLOROETHENE	EPA 624	0.370 J ug/i	0.300 ug/1*	09/16/10 01:26AM EEW
CHLOROBENZENE	EPA 624	ND ug/1	0.300 ug/1* 0.280 ug/1*	09/16/10 01:26AM EEW
	CDA 62/	ND ug/1	0.200 ug/ i**	
ETHYL BENZENE	EPA 624	ND ug/]	0.220 ug/]*	09/16/10 01:26AM EEW
M&P XYLENES	EPA 624	ND ug/]	0.400 uğ/]*	09/16/10 01:26AM EEW
O-XYLENE	EPA 624	ND uğ/]	0.1 <u>9</u> 0 uğ/]*	09/16/10 01:26AM EEW
BROMOFORM	EPA 624	ND uğ/j	0.250 ug/1*	09/16/10 01:26AM EEW
1,1,2,2-TETRACHLOROETHANE	EPA 624	ND ug/l	0.250 uğ/]*	09/16/10 01:26AM EEW
1,3-DİCHLOROBENZENE	EPA 624	ND ug/ <u>1</u>	0.180 uğ/]*	09/16/10 01:26AM EEW
1,4-DICHLOROBENZENE	EPA 624	ND ug/1	0.250 uğ/1*	09/16/10 01:26AM EEW

Page 7 of 10 Serial Number: 1557529

Thomas J. Hines, President

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947 Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No: Inv. No: 1243421

Sample Number Sample Description Samp. Date/Time/Temp Sampled by

L3504489-4 9/9 EFFLUENT GRAB 09/09/10 04:55pm Customer Sampled

Serial Number: 1557529

Text Date, Time, Analyst 1,2-DICHLOROBENZENE EPA 624 ND ug/l 0.200 ug/l* 09/16/10 01:26AM EEW NONE FOUND EPA 624 LIB SR ND 09/16/10 01:26AM EEW O9/16/10 01:26AM EEW OP/16/10 01:

homos Thomas J. Hines, President

Page 8 of 10

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No:

Inv. No: 1243421

Sample Number Sample Description Samp. Date/Time/Temp Sampled by Received Temp

L3504489-5 9/10 EFFLUENT GRAB 09/10/10 06:30am NA F Customer Sampled 35 F Iced (Y/N): Y

	•	,		
Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MAS	S SPECTROM	ETRY: VOLATILES		
DICHLORODIFLUOROMETHANE	EPA 624	ND ug/1	0.620 ug/1*	09/16/10 02:02AM EEW
CHLOROMETHANE	EPA 624	ND ug/1	0.430 ug/1*	09/16/10 02:02AM EEW
	EPA 024	ND ug/1	0.430 ug/ I*	
VINYL CHLORIDE	EPA 624	ND ug/]	0.350 ug/1* 0.370 ug/1*	09/16/10 02:02AM EEW
BROMOMETHANE	EPA 624	ND uğ/j	0.3/0 ug/ i*	09/16/10 02:02AM EEW
CHLOROETHANE	EPA 624	ND uğ/ <u>1</u>	0.280 ug/]*	09/16/10 02:02AM EEW
TRICHLOROFLUOROMETHANE	EPA 624	ND ug/1	0.470 uğ/1*	09/16/10 02:02AM EEW
TERTIARY BUTYL ALCOHOL	EPA 624	ND ug/1	6.13 uā/1*	09/16/10 02:02AM EEW
1,1-DICHLOROETHENE	EPA 624	ND uğ/1	0.290 uğ/]*	09/16/10 02:02AM EEW
MÉTHYL TERTIARY BUTYL ETHER	EPA 624	0.430 J uğ/1	0.230 ua/1*	09/16/10 02:02AM EEW
METHYLENE CHLORIDE	EPA 624	ND ug/i	0.500 ug/i	09/16/10 02:02AM EEW
TRANS-1,2-DICHLOROETHENE	FDA 624	ND ug/1	0.230 ug/1*	09/16/10 02:02AM EEW
1,1-DICHLOROETHANE	EPA 624 EPA 624	ND ug/1	0.500 ug/1 0.230 ug/1* 0.220 ug/1*	09/16/10 02:02AM EEW
CADDON TETDACH OD IDE	EPA 624	ND ug/ I	0.220 ug/1	09/16/10 02:02AM EEW
CARBON TETRACHLORIDE	EPA 024	ND ug/1	0.320 ug/]*	09/10/10 UZ:UZAM EEW
CIS-1,2-DICHLOROETHENE CHLOROFORM	EPA 624	ND ug/]	0.200 ug/1*	09/16/10 02:02AM EEW
CHLOROFORM	EPA 624	ND ug/l	0.220 ug/]*	09/16/10 02:02AM EEW
1,1,1-TRICHLOROETHANE	EPA 624	ND uğ/ <u>1</u>	0.260 ug/]*	09/16/10 02:02AM EEW
1,1,1=IRICHLOROE I HANE BENZENE 1,2-DICHLOROETHANE TRICHLOROETHENE 1,2-DICHLOROPROPANE BROMODICHLOROMETHANE TOLUENE	EPA 624	ND ug/1	0.230 ua/1*	09/16/10 02:02AM EEW
1,2-DICHLOROETHANE	EPA 624	ND uğ/1	0.250 ug/1* 0.310 ug/1*	09/16/10 02:02AM EEW
TRICHLOROETHENE	EPA 624	ND uğ/l	0.310 uď/1*	09/16/10 02:02AM EEW
1.2-DTCHLOROPROPANE	EPA 624	ND ug/1	0.220 ug/1*	09/16/10 02:02AM EEW
BROMODICHI OROMETHANE	EPA 624	ND ug/1	0.240 ug/1*	09/16/10 02:02AM EEW
TOUTENE	EPA 624	ND ug/1	0.240 ug/1*	09/16/10 02:02AM EEW
TRANS-1,3-DICHLOROPROPENE	EPA 624	ND ug/1	0.170 ug/1*	09/16/10 02:02AM EEW
CIS-1,3-DICHLOROPROPENE	EPA 624		0.1/0 ug/1*	09/16/10 02:02AM EEW
1 1 2 TDTC ODOCT AND	EPA 024	ND ug/1	0.140 ug/1* 0.320 ug/1*	
1,1,2-TRICHLOROETHANE	EPA 624	ND ug/]	0.320 ug/ i^	09/16/10 02:02AM EEW
2-CHLOROETHYL VINYL ETHER	EPA 624	ND ug/]	0.490 ug/1*	09/16/10 02:02AM EEW
DIBROMOCHLOROMETHANE	EPA 624	ND ug/]	0.310 uğ/ <u>1</u> *	09/16/10 02:02AM EEW
TETRACHLOROETHENE	EPA 624	0 . 350 J uğ∕1	0.300 ug/1* 0.280 ug/1*	09/16/10 02:02AM EEW
CHLOROBENZENE	EPA 624	ND uğ/l	0.280 ug/1*	09/16/10 02:02AM EEW
ethyl benzene	EPA 624	ND uğ/l	0.220 ug/l*	09/16/10 02:02AM EEW
M&P XYLENES	EPA 624	ND ug/1	0.400 ug/1*	09/16/10 02:02AM EEW
O-XYLENE	EPA 624	ND ũg/i	0.190 ug/1*	09/16/10 02:02AM EEW
BROMOFORM	EPA 624	ND ug/i	0.250 ug/1*	09/16/10 02:02AM EEW
1,1,2,2-TETRACHLOROETHANE	EPA 624	ND ug/1	0.250 ug/1*	09/16/10 02:02AM EEW
1,1,2,2=TETRACHLOROETHANE 1,3=DICHLOROBENZENE	EPA 624 EPA 624		0.250 ug/ l*	09/16/10 02:02AM EEW 09/16/10 02:02AM EEW
	EPA 024	ND ug/1	0.180 ug/1*	
1,4-DICHLOROBENZENE	EPA 624	ND ug/1	0.250 uğ/1*	09/16/10 02:02AM EEW

Page 9 of 10 Serial Number: 1557529

Thomas J. Hines, President

Analytical Report



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947 Regarding:

DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

Account No: AW0789, INTEX INC. Project No: AW0789 FITZGERALD, INTEX INC.

P.O. No: PWSID No: Inv. No: 1243421

Sample Number Sample Description Samp.' Date/Time/Temp Sampled by

L3504489-5 9/10 EFFLUENT GRAB 09/10/10 06:30am NA F Customer Sampled

Test Date, Time, Analyst 09/16/10 02:02AM EEW 09/16/10 02:02AM EEW Parameter Method Result 1,2-DICHLOROBENZENE EPA 624
NONE FOUND
QUALIFIERS: For metals parameters; "B" indicates a value that is > than the MDL but < than the laboratory quantitation limit. For Organics parameters; "B"is when the compound is found in the blank as well as in the sample; "J"indicates a value that is > than the MDL but < than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search; "E"(estimated) is when a compound exceeded the calibration range; "N" presumptive evidence of a compound; "D" is when a dilution

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
 All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
 The test"pH lab"is analyzed upon receipt in the laboratory, the result will not be suitable for regulatory purposes.
 The reported results relate only to the samples.
 Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=Laboratory reporting limits; L/A=laboratory
- Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=Laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count.

 A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.

 QC NELAP ID's:PA 09-00131,NJ PA166,FL E87954,NY 11223,CT PH-0768,DE PA-018,KY 90228,MD 206,EPA PA00018.Bioassay:PA 09-03574,NJ PA034,FL E87953,KS E10373,SC 89020001.

 QC STATE ID's:Wind Gap,NJ PA001,PA 48-01334;E RUTHERFORD NJ02015;Vineland NJ06005; Reading PA 06-03543.

 All samples are collected as "grab" samples unless otherwise identified.

 MCL=is the EPA recommended "maximum contaminant level" for a parameter, PLs=customer specific permit limits.

 The test results meet all requirements of NELAC unless otherwise specified.

 The report shall not be reproduced except in full without the written consent of the laboratory.

 * The "RLs" represents a reporting/quantitation limit. When an "*" is present in the column identified as the "RLs", it is being reported as a Method Detection Limit or MDL.

Serial Number: 1557529

Page 10 of 10

was required.

homos Thomas J. Hińes, President

AW0789 fitzgerald	d		
Q CLaboratories	CHAIN OF CUSTODY Page of	Lab LIMS No: 13504489.	MATRIX CODES
1205 Industrial Blvd. Phone: 215-355-3900 Southampton, PA 18966-0514 Fax: 215-355-7231	Bill to/Report to: (if different)	# Ascorbic/HCI Vials # HCI Vials	DW: DRINKING WATER GW: GROUND WATER
Client/Acct. No. JUTEV ENV. GVOUP JUL Address 6907A EASTON RD	Sampling Site Address: (if different)	# Na ₂ S ₂ 0 ₃ # Na OH/Zn acetate pH # HNO ₃ pH	WW: WASTEWATER S0: S0IL SL: SLUDGE
City/State/Zip P. PERS VILLE PA 18947 Phone/Fax 215 766 7230 / 973		# H ₂ S0 ₄ pH # NaOH pH # Unpreserved	OIL: OIL SOL: NON SOIL SOLID MI: MISCELLANEOUS
Client Contact DAW FITZGERALL	QC Contact	# Hcl pH	X: OTHER
PROJECT FIELD ID	Collection	# Temp control 35 (10# Service) ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl ₂ , S. Cond. etc.
T	9/8/10 00:15 X GW 3 , X	VOAHO DichloradifloromeTHANE	PH 6.8
	9/8/10 13:48 X GW 3 X	45 1,2 Dichlorocthelene	
······ 1	9/9/10 03:21 X GW 3 X		
	7/9/10 16:55 X GW 3 X		
EPPLUEDI	Alliplia acad Market		
0			1
15			
Y			
SAMPLED BY: (Name/Company) Verbal/fax data due:	/ / Report Format: Standard Forms	Field Parameters Anal	· , · · · · · · · · · · · · · · · · · ·
Hardcopy due:/_	yailability on rush (<14-21 day) turnaround and on all but standard fo		Date/Time:
Please call for pricing and a		TE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM I	S 0800, 4 PM IS 1600)
RELINQUISHED BY SAMPLER DATE TIME 9/10/10 14	: Ou Tolga C North 9/10/1	TIME DELIVERY METHOD: QC COURIER CLIEN	<u></u>
RELIMBUISHED BY DATE OF TIME	0) 81.6 P	COMMENTS:	
RELINCUISHED BY DATE TIME	RECEIVED BY DATE	TIME	•
RELINQUISHED BY DATE TIME	RECEIVED BY DATE	TIME	
RELINQUISHED BY DATE TIME-		TIME Hazardous: yes / no	11

For example to aid completion, see reverse side.

QC LABORATORIES FIELD SERVICE REQUEST FORM Sep 09 2010, 03:53 pm



DAN FITZGERALD INTEX INC. 6907A EASTON ROAD PIPERSVILLE, PA 18947

(

Project No.: AW0789 FITZGERALD

Phone: (215)766-7230 Fax: (215)766-9730

Cell: () -

Primary Driver: JCN

Service Date: 09/10/10 P

PU AFTER 2:00 PM To 09/10/10

PICK-UP

Delivery Charge:

Day of Week: FRI

Sampling Instructions:

Contact: DAN

Bottle Prep:

Rush Samples:

Service to be performed at:

PLEASE SCHEDULE.... PICKUP... FOR FRIDAY 9/10/10 ... AFTER 2:00 PM.

Requested by: Robert F. Hulit Ext:

Entry date: 09/09/10 03:53PM

Call received: 09/09/10 03:52PM

Field Service Request No.: FS143325

Service Time: 10 minutes

Equip Code: PU

Appendix I

Certificates of Disposal, Bills of Lading, and Waste Manifests

1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A		1	3. Emergency Respons	785	4. Waste Tre ×素物物	8× 10	nber OO2	
	5. Generator's Name and Mailin U.S. EPA REGI 290 BROADWAY	ng Address ION II/OLD RO , NEW YORK, I	OOSEVELT FIELD NY 10007-1816	SITE	Generator's Site Addres 251 CLIN' GARDEN C			ss)		
	Generator's Phone: 212-6 6. Transporter I Company Nam	ne .			· · · · · · · · · · · · · · · · · · ·		U.S. EPA ID N	Lumber -		
	FREEHOLD CAR	rage, inc.					N3BABS		164	
	7. Transporter 2 Company Nam	ne			^ ·		U.S. EPA ID I	lumber		
		L RECOVERY CO HEIM PIKE, L		7601			U.S. EPA IO			
		393-2627		and the second second second second second	10. Con	lainers	N/	A 12. Unit	*********	
- Company	9. Waste Shipping Name	e and Description		a. 4, 40 - mass	No.	Туре	Quantity	WLVol.	·	
VERATOR .	NON HAZAI (PURGE W	RBOUS, NON RATER)	egulated		1	TT	5000	G	NREG	nga ang
GE	2.			1.300m(rice 2200)			(43	4)		
	3.									
	4. 13. Special Handling Instruction								4	
The second secon	* MATA	AL OFFIC	CASED FOR							7ED
1	8enerator's/Offeror's Printed/T		is described above on this manifes		to federal regulations to nature	r reporting pro	per disposal of Ha	eW eurobras	ste. Month	Day Year
*	Jan N.	The second secon			A Dausti	ONE	FHALF C	FE	94 09	0110
NT'L	15. International Shipments	Import to U.S.		Export from L		entry/exit:				
8	Transporter Signature (for exporter Acknowledgme	Managed a managed with the second			Date lea	aving U.S.:	^ _	·		
TRANSPORTER	Transporter 1 Printed Typed No.	TROCE	निवा	Sig Sig	nature A	DX	1/28	2	Month Month	Day Year Day Year
E.					10		200 th 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to			L
1	17. Discrepancy 17a. Discrepancy Indication Sp	98C9	П_				Π			
		L.I Quantity	Тура		L Residue	d	Partial Rej	ection	الا	Full Rejection
CILITY -	17b. Alternate Facility (or Gene	ristor)		***************************************	Manifest Reference	Number	U.S. EPAID	lumber		
DESIGNATED FACILITY	Facility's Phone: 17c. Signature of Atternate Fac	city (or Generator)	and an analysis of the second						Month	Day Year
GNAT		Water thanks in the			V to to Auk I in mark			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L l
- DESI						-y-		de la la la la la la la la la la la la la		
	18. Designated Facility Owner Ponted Typed News	or Operator: Certification of	receipt of materials covered by the		as noted in Item 17a	//	11/1		Month	Day Year
¥	TERU	E AL	EKIS'		Du	refl	1-10	gre	109	0210
16	9-BLS-C 6 10497 (Rev	. 8/06)			The state of the s		ESIGNATE	DFAC	ILITY TO G	ENERATOR

1	NON-HAZARDOUS WASTE MANIFEST	Generator ID Number N/A	2. Page 1 of 3.	Emergency Response Phone 631-553-5785	4. Waste Tracking Number	ıı
	290 BROADWAY	ION II/OLD ROOSEVE Y, NEW YORK, NY 10 637-4106	LT FIELD SITE	enerator's Site Address (if differe 251 CLINTON GARDEN CITY,	RD NY	
	6. Transporter 1 Company Nam FREEHOLD CAI	RTAGE, INC.			U.S. EPA ID Number NJD 054 126	164
	7. Transporter 2 Company Nam	16			U.S. EPA ID Number	
	1076 OLD MAR	AL RECOVERY CORP NHEIM PIKE, LANCAST	ER, PA 17601		U.S. EPA IO Number	
	Facility's Phone: 717-2	393 2627		10 Considers	N/A	
	9. Waste Shipping Name	and Description		No. Type	11. Total 12. Unit Quantity WL/Vol.	
GENERATOR	(PURGE	ARDOUS, NON REGULAT	ED	1 TT	5000 G	NTOSE:
GE	2		and and control of the control of th		(46 Y)	
	4.					
	13 Special Handling Instruction **MATEL	IAL OFFICIADED	FOR PIT SOL	BIFICATION F	& CLEATED TO BISPOSA	(46) YABS
	14. GENERATOR'S CERTIFICATION OF THE STATE O	ATION: I certify the materials described above	re on this manifest are not subject to Signat	ederal regulations for reporting p	roper disposal of Hazardous Waste	Month Day Year
*	Frank	Colina	4	Freh Mi (US EPA)	10910/110
INTL	6. International Shipments Transporter Signature (for exporter)	Import to U.S.	Export from U.S.	Port of entry/exit: Date leaving U.S.:		- Access
TER	16. Transporter Acknowledgmer Transporter 1 Printed/Typed Na	nt of Receipt of Materials	Signat			Month Day Year
TRANSPORTE	Kon T	urcotte J		76. S	ecol	19/1/10
TRAN	Transporter 2 Printed/Typed Na 17. Discrepancy	An Buxle	Signat	coeff	andered	Month Day Year
	17a. Discrepancy Indication Spa	ace Quantity	Птуре	Residue	Partial Rejection	Full Rejection
ACILITY -	17t: Alternate Facility (or Gener	a(or)		Manifest Reference Number:	U.S. EPA ID Number	
DESIGNATED FACILITY	Facility's Phone: 17c. Signature of Alternate Facil	fity (or Generator)			1	Month Day Year
DESIG -					ngang Ngang	
V	18 Designated Facility Owner of Printed Typed Name Communication (Communication)	r Operator; Certification of receipt of materia	s covered by the manifest except as	noted Jam 17a	Men	Month Day Year

STRAIGHT BILL OF LADING

Shipper No. ORIGINAL - NOT NEGOTIABLE Carrier No. FREEHOLD CARTAGE INC Date 9/16/10 Page (SCAC) On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in item 430, Sec. 1. Shipper U.S. EPA REGION II / ROUSEVELT FIELD TO: Consigned ENVIRONMENTAL RECOVERY CORP CLINTON Street Street 1076 OLD MANHEIM PIKE State NY CITY GYARDEN CITY Zip Code 24 hr. Emergency Contact Tel. No. 32-371-2939 State, PA Zip Code 1760 CITY LANCASTER Route Number TOTAL QUANTITY BASIC DESCRIPTION WEIGHT CHARGES HMNo. of Units Proper Shipping Name, Hazard Class UN or NA Number, Proper Shipping Name, (Weight, Volume, Gallons, etc.) RATE (Subject to (For Carrier & Container Type UN or NA Number, Packing Group Hazard Class, Packing Group Correction) Use Only) NON HAZARDOUS NON RELULATED SUBJECT 10 GRAVNO WATER JEHHTS 4. 1 10091 X MARRIAL WAS OFFICATED FOR PUT SOLIDIFICATION 4 CREMIED 38 YDS FOR SISPOSAT PLACARDS TENDERED: YES ... NO ... REMIT C.O.D. TO: Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding.

(2) Where the applicable teriff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of tiem 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping same and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable informational and national governmental regulations. C.O.D. FEE: PREPAID | COLLECT | COD Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the consigned without recourse on the consigner, the consigner shall sign the lookering statement which make delivery of this shipment without payment of felight and all other taxwid charges. TOTAL FREIGHT CHARGES FREIGHT PREPAID

except when box at right is checked

Check box il charges are to be collect Signature (Signature of Consignor) RECEIVED, subject to the classifications and tariffe in effect on the date of the issue of this Bitl of Lading, the properly described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry for its usual place of delivery at said destination, it on its route, otherwise to defiver of another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to desfination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of fading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the fading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. SHIRPER U.S. EPA-REGIONIT CARRIER Recitalis CAMATASE PER PER

PRINTED ON RECYCLED PAPER SOY INK.

DATE

NON-HAZARDOUS WASTE MANIFEST

i	Please print or type : (Form designed for use on exte (12)	pitch) typewater)				yb."		
		1. Geлerator's US EPA	ID No. N/A	÷	Manifest Document No.	13022	2 Page 1 of 1	
	3. Generator's Name and Mailing Address U.S. EPA REGION II/ROOS 290 BROADWAY, 20th FL, 4. Generator's Phone (212) 637-427	NEW YORK, I	NY 10007-1866		1			
	5. Transporter 1 Company Name FREEHOLD CARTAGE, INC.		5. US EPA ID Number NJD 054 126 164		A. State Trans	porter's ID NT- 1 1 Phone 732-462	3 -10001	
	7. Transporter 2 Company Name		5. US EPA ID Number		C. State Transporter's ID D. Transporter 2 Phone			
	•9. Designated Facility Name and Site Address ENVIRONMENTAL RECOVERY	COPD	16. US EPA JD Number		E. State Facili			
	1076 OLD MANHEIM FIKE# LANCASTER, PA 17601	CORF	N/A	· · · · · · · · · · · · · · · · · · ·	F. Facility's Phone 717-393-2627			
	71. WASTE DESCRIPTION			12. Con No.	tainers Type	13. Total Quantity	14. Unit Wt./Vol.	
	NON HAZARDOUS NON REGU (PURGE WATER)	LATED		1	TT	2228	G	
- [G b. E							
	E C. A. T	· · · · · · · · · · · · · · · · · · ·						
	O d	. ي	· ·					
S								
N-HAZARDOUS WASTE	G. Additional Descriptions for Materials Listed Above SITE ADDRESS: STE	WART AVE A DEN CITY,			n. Handing O	odes for Wastes Listed Abo	we	
Z	2 W 41 15. Special Handling Instructions and Additional Inform	one_					<u> </u>	
NON-HA	18. GENERATOR'S CERTIFICATION: I hereby carry in proper condition for transport. The materials desc		shipment are fully and accurately describe re not subject to rederal hazardous waste n	d and are in all regulations.	It respects			
	Printed/Typed Name N. F. H. J. S. T.	-1310W EL	Egrature /	10		Mo <u>r</u>	Date Day Year	
	T 17. Transparter 1 Acknowledgement of Receipt of Mate	rials	Julio ()	~/_	·		Date .	
	Printed Typed Name Sony white	*.	Signature Color	70		Men 3		
1	18. Transporter 2 Acknowledgement of Receipt of Mate Printed/Typed Name E	Hais	Signature			Мол	Daie oth Day Year	
	F A C							
1	20. Facility Owner or Operation Certification of receipt of	the waste male and	vered by this manifest, except as the except	tem 19.			Date	
	T Printed Type Name //	Ixov	Sozzáre	<u></u>	•	, Mon	門門	

NON-HAZARDOUS WASTE MANIFEST

Plea	se print or type (Form designed for use on elite (12 pitch) typewriter)					۵	•		
	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.				Mankest Document No	° 13021	2	Page 1 of	
	3. Generator's Name and Mailing Address U.S. EPA REGION II/ROC		10000-1066					-		
	290 BROADWAY, 20th FL 4. Generator's Phone (212) 637-427		1000∆−1000							
	5. Transporter 1 Company Name FREEHOLD CARTAGE INC.	6. 1 语	US EPA ID NU JD 054 126					1- i +62-1		
	7. Transporter 2 Company Name	8.	US EPA ID Nur			B. Transporte C. State Trans			004	
	0.00	10.	Ho spa in M.			D. Transporte			* -	
	9. Designated Facility Name and Site Address ENVIRONMENTAL RECOVERY 1076 OLD MANHEIM PIKE	CORP	US EPA ID Nu	i.		E. State Facili	ty's ID			
	10/0 Ond Maniath 110%	, LANCASIER, FA	17001	1V f &1		F. Facility's Pt 717-3	one 93-2627	٠		
	11. WASTE DESCRIPTION				12, Co No.	ntainers Type	13. Total Quantity		14. Unit Wt./V	t /ol.
	NON HAZARDOUS NON RE (PURGE WATER)	GULATED		÷	1	TT	2.88	13	G	<u>.</u>
GEZE	b.									
RATO	C.									
R/	d.									
	G. Additional Descriptions for Materials Listed Above	· / /		· ·		H. Handling C	odes for Wastes Liste	d Above		
7	SITE ADDRESS: STEWART GARDEN	AVE AND CLINTO	ON RD							
								,		
	15. Special Handling Instructions and Additional Info	mation								
			is Section of the contract of	· ·	•	•				
	16, GENERATOR'S CERTIFICATION: I hereby cert	ify that the contents of this shipme	ent are fully and accura	tely described a	and are in	all respects	7/7/			
	in proper condition for transport. The materials d	· .	ubject to federal haza	dous waste reg	ulations.		· · · · · · · · · · · · · · · · · · ·	:		
	ON BEHALF IN IK EVA &	EGION AL	Signature	(1) Th	- J. J.		·	Month	Date Day	Year
F	1711KE EHWD1 17. Transporter 1 Acknowledgement of Receipt of M	aterials	MAS	V W	1			<u>ا کن</u>	Date	Year /3
RAN	Printed/Typed Name	-	Signature					Month		Year
S P	18. Transporter 2 Acknowledgement of Regelpt of M	aterials	<u> </u>	<u> </u>	<u> </u>	<u> </u>			Date	· .
TRANSPORTER	Printed/Typed Name		Signature	<u> </u>)		Month		Year
F	19. Discrepancy Indication Space									
AC									٠	
L	20. Facility Owner or Operator, Certification of receip	t of the waste materials covered b	y this manifest, excep	as noted in iter	n 19.	7		T:	`rs	
T.	Printed/Typed Name		Signature	1.1	//.	, i -		Month	Date	Year
Υ	I MALLERALICATION		1 DUCK	dal	U.C.	20ch	•	<u>3</u> 1	15	13



ENVIRONMENTAL RECOVERY CORPORATION NON-HAZARDOUS WASTE MANIFEST

			<u></u>		
Generators Name and Site Address USEPA Region II - Roosevelt			Manifest No.	100920	
Clinton Road			Generator Con	efi Lippay	
Garden City, NY 11530					
			Generator Pho	ne (32) 600-0993	
Transporter Company Name	US EPA ID Number		Transporter Co		
Environmental Recovery Corp.	PAD987266749			Scott Reisinger	
Transporter Company Address			Transporter Ph		*.
1076 Old Manheim Pike, Lancaster, P.		*.		(17) 393-2627	
Designated Facility Name and Site Address Environmental Recovery Corporation	US EPA ID Number		State Facility's	301344	
1076 Old Manheim Pike Lancaster, PA 17601	PAD987266749		Facility's Phone	(717) 393-20	 527
WASTE DESCRIPTION		Containe	rs .		Γ
a.	and the second s	No,	Туре	Total Quantity	UOM
				175	
Non-Haz Groundwater Sediment/Sludge		XX	TT	1. NU	
N b.					
E				-	
A C. 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	· · · · · · · · · · · · · · · · · · ·				
R d					
Other Comments	. · ·	السين ال			
Work Order # RAG-3264		,	er er	to a second seco	
TYPES OF CONTAINERS		l	UNITS OF MEAS	SURE (UOM)	
	letal drums, barrels, kegs, pails ump truck		G = Gallons (lic	juids only)	
	Vooden drums, barrels, kegs argo tanks (tank trucks)		T = Tons (2000 Y = Cubic Yard		
	qua bins / totes				
I hereby certify that the above described materials are non-hazardous wastes a					erly
classified, described, packaged, marked and labeled, and are in proper condition	on for transportation according to the applica	ble regulati	ions of the Depa	rtment of Transportation.	···
On behalf of EPA Krain 2. Printed/Typed Name	Signature			Month	Date Day Year
X Toso al Cattor	XTZ /	and the same	4	3 i	1713
Transporter Acknowledgement of Receipt of Materials	777	, ,,,,			Date
Printed / Typed Name	Signature			Month	Day Year
1 THOWN LONG	1 / / / /	1.1 - .8.	<u> Za ce</u>		<u> </u>
Discrepancy Indication Space		" (Later)	والمعتران المعمر المعمران	factor in any first the first time of	
A C Facility Owner or Operator, Certification of receipt of the waste materials cover	ed by this manifest, except as noted above				
A C	ed by this manifest, except as noted above				Date
A C Facility Owner or Operator, Certification of receipt of the waste materials covered	ed by this manifest, except as noted above	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	Month	Date Day Year

FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010 (732) 452-1001 - FAX (732) 308-0924

FCI EPA ID NO. NJD054126164

350 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005 Fax: (302) 658-6229

175 Bartow Muss. Airport Bartow, FL 33830 Phone: (863) 533-1597 Fax: (863) 533-1613

5533 Dunham Road Maple Heights, OH 44137 Phone: (330) 535-3473 Fax: (330) 835-3732

108 Monahan Avenue Dunmore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367

132 Myrtie Beach Hwy. Sumter, SC 29153 Phone: (803) 773-2611 Fax: (803) 773-2942

SHIPPER NAME/ADDRESS		PHONE (25) AREA CODE) 55 FRACTOR	TRALER	9		APPOINTMENT TW			
A - January	11530	724	· ·	The state of the s					
FCI REP. LOADING (PRINT)	PROCEDURE	EQUIP, SPOT	ED EQU	P. REMO	VED	TIME AT SHIPPER	MI	F. TECK	1
222			- -	or Till		ARRIVAL TIME		SOLO PROPETIME	
COMMENTS OR DELAYS AT SHIPPER	Jed John Se				1	EQUIPMENT USED		- An Indiana Talkin	<u>Europiania</u> Paraganan
							- 4 4		
BROKER:									
20#. W	O#:		WANIFE:	517U	UCUI	VENT NO:			
PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O HAZARDOUS		PACKING GROUP	NO. CONT.	CONT. TYPE	NET	UNIT MEASURE	WASTE NO.	FORM
The Render				61	700	36	\$ a		Gare.
2 00 1011005							1		<u> </u>
3		<i>م</i> ر ا						•	
SHIPPER'S CERTIFICATION: This is to certify it transportation according to the applicable regulation amed. The consignee can and will accept the shipper statement to the contractor for waste removal does not be contractor.	at the above name ons of the Departme pment and has a val	d materials are proper it. Transportation, U. it. Permit to do so il req	S. EPA and the uired. I certify th	State. The	e materia egoing is	is described above virue and correct to the	vere consigne le best of my k	d to the Tran nowledge.	epoder,
the contractor. PLEASE PRINT NAME/TITLE		SHIPPER'S SIGNAT	URE .				DATE LOADE	D	
Frank Robinson		X Jal M	tomber 6	e 14#	(U	(873)	971	53.7.	
		1	BOVE AND UNDERS	TAND AND A	GREE TO A	LL OF ITS CONTENT.	© MOL ∴ ©	DAY	YR
CONSIGNEE NAME/ADDRESS		AREA CODE)	TRAILER		-2 - 2 - 3	APPOINTMENT TIM	1 1 1 1 1 1 1 1 1 1		
FCI REP. UNLOADING (PRINT) COMMENTS OR DELAYS AT CONSIGNEE	PROCEDURE	EQUIP. SPOT	ED EQUI	P. REMO		TIME AT CONSIGN ARRIVAL TIME EQUIPMENT USED		RY TIME ONL	
		assis anno	en en en en en en en en en en en en en e		ŀ	tun.			-
PLEASE PRINT NAME/TITLE		CONSIGNEE SIGNA	TUBE ().) k ja				DED DAY	
DE DE-HW-203 ME ME- DE-SW-203 ME- IL UPW-0190713-OH MI UPW	-OPV-2335	MO H-1490 ND WH-429 NH TNH-0047 NJ S-2265 15939 NY NJ-113	0 0 Pr Q	A PA-AH)1907134 CANADA 1-0067 CANADA		· WI - 1	0705 1602 0PW-01907	13-OH



NON-HAZARDOUS WASTE MANIFEST

ENERATOR INFORMAT	FION	CUSTON	IER/BILLING	INFORMATION	
enerator Name:	PA INCIDI II / ROSETTA	Billing Nar	ne:		
ldress:		Address:			
ry	County:	City:		County	
ate:	Zip:	State:		Zip	
te Location (if different):					
78.00 (501) 5.4°					
Republic Services Approval Number	Description of Waste	Vo	lume/Weight	Expiration Date	Container Type
Approval various					
tech Additional Sheet if neces	31V				
ereby certify that the above	described materials are non-hazardous	wastes as define	d by 40 CFR 2	61 or any apolicab	e state law Further
t the above named materia	els are properly classified, described, page e applicable regulations of the Departme	ckaged, marked a	and lebeled, at	id are in proper co.	tattan te
			and the same of th	101 100 4	
nerator/Authorized Agent Nam		to a series de l'action de l'action de la company			Date Shipped
	TRANSPORTE	P INFORMATI	ON		
Transpo	rter Name: FEEFERD CARCAGE 3TE	DOT Numbe	, 70077		
Address				10-10-	
Address	FD 47 96728		1000	<u> 185 - 197</u> Kristoria	
		Phone Numi	ber:		
rtify no hazardous waste of vehicle is the waste identif	rother regulated substance was knowing sed above, to the best of my knowledge.	gly introduced to	the waste while	e in my custody. Tr	ie waste transported i
though the first	· ·	711			
ne of Authorized Agent	Signature				Date Delivered
	DISPOSAL SIT Modem Landfill		71792	6-2686	
Site Nam		Phone Numb	oer:	0-2000	
Address:	4400 Mt. Pisgah Road, York, I	7A 174UZ			
a na kaj jegijala jeogan malapasla na jeografia ja ja kaj kaj kaj	na kan na magakatan jaga sakata kan tahun 1970 merekan tahun kalamatan kan di berata dari kelalah sakat dari d				
reby acknowledce receipt (of the above described materials				
eby acknowledge receipt o	of the above described materials.				

Modern Landfill

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5566



Ticket:

077698

Date: Time In: 07/09/10 8:53 am

Time Out:

9:43 am

Customer	Copy
----------	------

Vehicle:

218704 ROLL OFF

DEP#: 008892

WH#0754 FREEHOLD CARTAGE INC.

Container/Trailer/DEP#:

SEACOAST ENVIRONMENTAL SERVICES INC

00 Gross Weight

64,100.00 lb

Customer:

000826

Tare Weight

29,040.00 lb

716 NEWMAN SPRINGS ROAD, PMB 292

Net Weight

35,060.00 lb

LINCROFT, NJ 07738

Net Tons

17.53 TN

Reference:

Origin:

Contract/Profile: 3819109167

Yards

20.09 YD:

Manifest: 04 73796/227981

Generator: USEPA REG II

Materials & Services

Quantity

Rate

Unit

ΤN

Disposal

NEW YORK STATE (NY) --- W [11] SW-DRILLING MUDISOILS

17.53

Check #

Net Amount:

Tendered:

Change:

Driver_

Weighmaster

JODI WILLIAMS 059039

FREEHOLD CARTAGE INC.

P.O. BOX 5010 . FREEHOLD, NJ 07728-5010 (732) 462-1001 • FAX (732) 308-0924

FCI EPA ID NO. NJD054126164

350 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005 Fax: (302) 658-6229

175 Bartow Mun. Airport Bartow, FL 33830 Phone: (863) 533-1599 Fax: (863) 533-1613

5533 Dunham Road Maple Heights, OH 44137 Phone: (380) 835-3473 Fax: (330) 835-3732

108 Monahan Avenue Dunmore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367

132 Myrtle Beach Hwy. Sumter, SC 29153 Phone: (803) 773-2611 Fax: (803) 773-2942

2 400 (400) 400 0000	· · · · · · · · · · · · · · · · · · ·									
SHIPPER NAME/ADDRESS		PHONE (AREA		2_4.	104					İ
ander CTV 2		TRACT		TRAILER	·		PPOMNAENT NA	2		
FCI REP. LOADING (PRINT)	PROCEDUF	RE	EQUIP SPOTT	EQUI	P. REMO	VED	TIME AT SHIPPER)Millio	art invelond	ñ.
	Sept 8	eram erana erana(78			and Marie Marie Labor Marie Marie		ARRIVALTIME	DEF	ARTURE TIME	
COMMENTS OR DELAYS AT SHIPPER					-	. !	EQUIPMENT USED		•	
	-		1				Table Services a	The section of the se	والمعراق المستحددة والمستحدث والمستحددة	ده
BROKER:			N	IANIFES	T/D	ocui	WENT NO.			
(1	U.S. D.O.T.	Assistanti e de la compansión de la comp	PACKING	NO.	CONT.	NET	UNIT	WASTE	Teers
PROPER U.S. D.O.T. SHIPPING NAME		ARDOUS CLASS	NA/UN/NO.	GROUP	CONT.	TYPE	OUANTITY	MEASURE	NO.	FORM
A Chillian 14			be and	<u></u>	191	144				15.
2		;					,			<u> </u>
3						,				ļ.
SPECIAL HANDLING INSTRUCTIONS INCLUDIN	IG CONTAIN	ER EXEMPTION	ON NUMBER.		·		1.	·	7.00	
				****	San San Marie				J. Garage	
SHIPPER'S CERTIFICATION: This is to certify to transportation according to the applicable regulation amed. The consignee can and will accept the sh	ons of the De	parment of T	ransponation, U.S.	EPA and the	State, The	materia	ls described above v	vere consigna	d to the Tran	tion for sporter
Payment to the contractor for waste removal does a the contractor.								•		lered to
PLEASE PRINT NAME/TITLE		SHI	PPER'S SIGNATL	IRE			1	DATE LOAD	5 D ;:::%:::::::::::::::::::::::::::::::::	\$17.1.13
Frank Ulbrian		. x	TALL SI I HAVE READ THE AS	GREE TO A	U ALL OF TIS CORTENT. MAC DAY YR.					
CONSIGNEE NAME/ADDRESS		PHONE			\$ C.					
4400 DISTARTS.	Strofenier wy	TRACT		TRAILER			APPOINTMENT TIM			
	ĻΆ,		//6]	<u> Šy</u>	and the second			6		
FCI REP. UNLOADING (PRINT)	PROCEDUF	(L < ==^^}	EQUIP SPOTTS	EO EOG	P. HEMO	/ED	TIME AT CONSIGN		HY TIME ONL	
COMMENTS OR BELAYS AT CONSIGNEE	· · · · · · · · · · · · · · · · · · ·					. F	ARRIVAL TIME EQUIPMENT USED	orther day 0€6	ARTURE TIME	
			,	1						
PLEASE PRINT NAME/TITLE	·····	COI	VSIGNEE SIĞŲAȚ	URÉ	, ,	·················	[:	DATE UNLO	ADED	
		X					· · · · · · · · · · · · · · · · · · ·	MO:	DAY /s	YR.
DE DE-HW-203 ME ME- DE-SW-203 ME-	1-0PV-2335 HWT-47 WOT-47		MO H-1490 NO WH-429 NH TNH-0047 NJ S-2265	O) O) P/	PA-AH	190713- CANADA -0067	OH A 840943	WI	10705 11602 JPW-019071	i 3-O H
	V-0190713-C V-0190713-C		15939 NY NJ-113		JEBEC, C BI-535		QC-6ML-047			ere ja e



NON-HAZARDOUS WASTE MANIFEST

GENERATOR INFORMATION		ÇŰST	OMER/BILLING	INFORMATION	
Generator Name: TA REGION 11		Billing	Name:		
Address:		Addres	SS		
City: County:		City; _		County:	
State: Zip:		State:		Zip	
Site Location (if different):		. :		terrorren filosofie (m. 1948). Serveran filosofie (m. 1948).	
79000 (631) 632-4100	estate and the same				
Republic Services Description of Approval Number		1	Volume/Weight	Expiration Date	Container Type
109157 NON ESLABORS / NON ESC	nalis soi.				
	-				
		<u> </u>		e eest oo oo oo oo oo oo oo oo oo oo oo oo oo	
*Attach Additional Sheet if necessary.		. '		-	
Generator/Authorized Agent Name Transporter Name:	Signature			713	Date Shipped
Address S25 BVZ S2 B&ST					
<u> </u>			umber: <u>(732)</u>		
certify no hazardous waste or other regulated substance his vehicle is the waste identified above, to the best of m	was knowingly in was knowledge.	ntroduced	to the waste while	in my custody. The	ewaste transported in
Name of Authorized Agent	Signature				Date Delivered
DIS	POSAL SITE IN	FORMA	TION		
Site Name: Modern Landfill		Phone N	747 64	6-2686	
Address: 4400 Mt. Pisgah F	ē ē				
hereby acknowledge receipt of the above described mat	erials.				
	X		i Al	· · · · · · · · · · · · · · · · · · ·	7/4/10
ame (Print or Type)	Signature		-		Date Received

MODELL PRICE

4400 Mt. Pisgah Rd. York, PA 17406 (717) 245**-2686** Fax (717) 244-5568



Ticket:

077672

Date:

07/09/10 8:02 am

Time in: Time Out:

6:52 am

Scalehouse Copy

Vehicle: 121776

TRUCK-TRAILER

DEP#: VIN

WH 0754 FREEHOLD

'Container/Trailer/DEP#:

002980

00 Gross Weight

62,460.00 lb

Customer:

000826

SEACOAST ENVIRONMENTAL SERVICES INC

Tare Weight

34,280.00 lb

716 NEWMAN SPRINGS ROAD, PM5 292

Net Weight

28,180.00 15

LINCROFT, NJ 07738

Net Tons

14.69 TN

Reference:

Origin:

Contract/Profile: 3819109167

Yards

20.00 YD

Manifest: 04 73797/214554

Generator: USEPA REG II

Materials & Services

Quantity

Unit Rate

Disposal

NEW YORK STATE (NY)

VV [11]

SW-DRILLING MUD/SOILS

14.09

'IN

Check # Net Amount:

> Tendered: Change:

Weighmaster

JODI WILLIAMS 059039

Modern Landfill

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5588



Ticket:

077672

Date:

07/09/10

Time In: Time Out: 8:02 am 8:52 am

Vehicle:

121776

360

DEP#:

WH 0754 FREEHOLD

Container/Trailer/DEP#:

992989

00 Gross Weight

62,460,00 lb

Customer:

000826

SEACOAST ENVIRONMENTAL SERVICES INC

Tare Weight

34,280.00 lb

LINCROFT, NJ 07738

Net Weight

25,180.00 lb

Contract/Profile: 3819109167

716 NEWMAN SPRINGS ROAD, PMB 292

Net Tons

14:09 TN 20.00 YD

Reference:

Origin:

Generator: USEPA REG II

Yards

Manifest: 04 73797/214554

Materials & Services

Quantity

Rate

NEW YORK STATE (NY)

VV [11]

SW-DRILLING MUD/SOILS

Disposal

14.09

Unit TN

Check #

Net Amount:

Tendered:

Change:

Driver

Weighmaster

JODI WILLIAMS 059039

ECD.

FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010 (732) 462-1001 • FAX (732) 308-0924

FCI EPA ID NO. NJD054126164

S 200631

350 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005 Fax: (302) 658-6229 175 Bartow Mun. Airport Bartow, FL 33830 Phone: (\$63) 533-4599 Fax: (863) 533-1613 5533 Dunham Road Maple Heights, OH 44137 Phone: (330) 655-3473 Fax: (330) 835-3732 108 Monahan Avenue Dunmore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367 (52 Myrtle-Beach Hwy. Sumter, SC 29153 Phone: (893) 773-2611 Fax: (803) 773-2942

SHIPPER NAME/ADDRESS		····	BHONE	-			Į	1 1 1 1	1 + 1	+ + +			
		11			معصدي		ļ				Ì		
				CODE	TRAILER		- 19	ASSORTMENT TIME					
, actio		<i>ಟೆ</i> ಕಿಂತ ಇ	TRACT		HWITEN	Edward Day	l/			girin da sanagara			
Garren City	er i	(J.J. Y.)	· 5.5										
FCI REP. LOADING (PRINT)	, Jack	PROCEDURE	·	EQUIP, SPOTT	EO EQU	P. AEMO	vE0	TIME AT SHIFFE	3. (LEV TRUE DAL Composition			
	~	Q1				355		9 2					
for the world	· ,	فرزاً م		324 SEP\$25		Vettoria.		ARRIVAL TIM					
COMMENTS OR DELAYS AT SHIPPER							E	EQUIPMENT USED)		·		
							1	•					
								and the second second second second second second	an an an an air an Millian an an an Air	Seate, ander intentions	and the state of t		
BROKER				3050 B									
				The second second	MANIFES	TID	ocun	MENT NO.	September 1				
-PO4/	1. VV	0.):	A COLUMN	<u> </u>		1	1	T ***	THE CONTRACTOR OF THE PARTY OF	1	1 22 1 200		
PRÖPER U.S. D.O.T. SHIPP	ING NAME	U.S. I		NA/IJN/NO.	PACKING GROUP	NO. CONT.	CONT.	NET	UNIT MEASURE	WASTE NO.	FORM		
4964		HAZARDO	00 PT499		70005	0091.	11110	- DOARTON	INDASCITE.	 			
	***	·/ A.		The state of the s		1	and some	1 20		Ma	5		
	per 1		-		-		<u> </u>	1		1	1 1		
2		ļ			1						1		
				ļ -	<u> </u>	<u> </u>	-			<u> </u>	<u> </u>		
3											-		
SPECIAL HANDLING INSTRUCTIONS	NOLLIDII	IC CONTAINED E	YEMDTI	ON NUMBER	<u> </u>	1	<u> </u>			I			
SPECIAL HANDLING INSTRUCTIONS	MOCODII	1G CONTAINETE	WEIGHT EI	ONTONEER									
SHIPPER'S CERTIFICATION: This is to	certify t	hat the above par	ned mete	erials are properly	classified, des	scribed, r	nackaped.	marked and label	ed and are in	oroper condi	tion for		
transportation according to the applicable	e requiat	ions of the Departr	nent of T	ransportation, U.S	i. EPA and the	State, Th	e material	is described above	were consign-	ed to the Tran	sporter		
named. The consignee can and will acco													
Payment to the contractor for waste remother contractor.	valdoesi	not constitute paynt	ent to the	carrier and if the p	ontractor does	not pay in	e carrier.	lhe shipper is obliga	ited to pay the	agreed rate of	fered to		
PLEASE PRINT NAME/TITLE			l GHI	PPER'S SIGNATI		 ,			DATE LOÃE	ED CCCCCCC			
James medi				F.A.					See Section	etteralen eraken. Serren eta eta eraken bere	rediktion Reduktion		
Frat Pitine	•		ĮX.					O ALL OF ITS CONTENT. MO DAY YR.					
	• •				OVE AND UNDERS	TAND AND A	AGREE TO AL	LL OF HIS CONTENT.	Procedural States	TONE STATE	mress:		
CONSIGNEE NAME/ADDRESS	سررد∽، د		PHONE	=			1	1 1 1 1	1 .1 .4	1 1 1	F		
property of	n syamar		ÍARFA	CODEI	per mental se	**	1		1 / 4				
and the second of the second o	3	•	TRACT		TRAILER	:	- , [2	PPOINTMENT TI	ile /				
YORK	00		-	المنتقب المنتقب المنتقب	* * * * * * * * * * * * * * * * * * *		in the						
	<u> PA</u>				المعادمين المعادر المعاد	<u> </u>	[8]	The state of the s		and the second s			
FCI REP. UNLOADING (PRINT)" ;"	-	PROCEDURE	•	EQUIP SPOTT	ED - VECKI	P REMO	VED 135	TIME AT CONSIG	NEE - (MIL)	ary import	4		
The same of the sa		(- In								16	200		
COMMENTS OR DELAYS AT CONSIGN	ree .			(assistantial and assistant	Control of Street Street	alen de la colo	resconde	ARRIVAL TIMI EQUIPMENT USEC		ARTURETIME			
COMMENTS OF PETY 13 KT COMSIGN	4CC						.] *		,				
							1						
PLEASE PRINT NAME/TITLE			Cor	NSIGNEE SIGNAT	TURE	······································	L		DATE UNLO	ADED	es se e		
									foreign with the	19			
- Shorthan			ΧĘ	· · · · · · · · · · · · · · · · · · ·	***************************************	. he, a readingle to make			MO.	DAY	Ϋ́R		
			1						Protein Office (Co.)		reter Property		
AR H-0257	MD HW		-	MO H-1490			0190713-			40705			
CT CT-HW-307		1-OPV-2335 HWT-47		ND WH-429			01907134			11602			
DE DE-HW-203 DE-SW-203		WOT-47		NH TNH-0047 NJ S-2265		VIAHIO, VIAHIO,		A 840943	WV	UPW-019071	3-OH		
IL UPW-0190713-OH		V-0190713-OH		15939	- 01	UEBEC, C	CANADA	QC-6ML-047					
MA MA-294	MN UP	V-0190713-OH		NY NJ-113	RI	RI-535	•						

. 1	1	FREE	EHOLD CARTAG	E INC.	es Est	Date	1 - 1	
age	of		(Name of c	carrier*	(SCAC)	Date	7/9/	10
onsignee MC	ODERN	COO" must appear before consignee's name or a	s atherwise provided in Item 430, Sec.1.	U: (L=⊆'€')	PA REGION I	I/ROOSEV	ELT	,
44(treet)0 MT	PISGAH RD			EN CITY	StateNY	Zip Code	
XC)RK	State, PA	Zip Code					
loute				24 hr. Emergency Co	ontact Tel. No63	· Vehick		
No. of Units' & Container Type		B Proper Shipping Name, Hazard UN or NA Number, Packing Gr	ASIC DESCRIPTION Class of UN or NA Number, Pro	oper Shipping Name, Packing Group	TOTAL QUANTITY (Weight, Volume, Gations, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 D/T		NON HAZA	RDOUS, NON RE	GULATED	12			
		(SOIL)			TONS			
		CONTAINI	ER <u>9270</u>		(1981.)			
		APPROVA	L# <u>109167</u>		<u> </u>			
					5			
	The state of the s							
	Wytermitic.							
	The continue of the continue o	RECEIVED	BY: (T)					
	The state of the s	DATE:	1-11-10					10.000
		·						
Note (1) Where the	rate is depende	NDERED: YES NO ent on value, shippers are required to state ared value of the property, as follows: "Too	I hereby declare that the contents of this				<u> </u>	
greed or declared value e not exceeding 2) Where the applicable to	of the property is Facility provisions sp	s hereby specifically stated by the shipper to bere ecify a limitation of the camer's fability absent		COD	Amt: S	C.O.D. FI PREPAIL COLLEC	· 🗊	
rovided by such provision 3) Commodities requiring nust be so marked and pr	is. See NMFC ite special or addit schaged as to en	ional care or attention in handling or stowing sure safe transportation. See Section 2(e) of	transport according to applicable international and national governmental regulations.	Subject to Section 7 of the co consignee without recourse or following statement:	noblices, it ims shipment is to be of the consignor, the consignor si delivery of this shipment without	half sign the CHARGE	SHT CHARG	ES .
e Contract Terms and C	enditions for a lis	to the dassifications and tariffs in effect on the da	Signature Signature	tinetion and as to each	pature of Consigner) party at any time interested in all o	except when i	ov service to be	are to be collect
(the post nation	word camer being session of the pro- on, if on its route.	d above in apparent good order, except as note known), marked, consigned, and destined as it ay understood throughout this contract as meat perty under the contract) agrees to carry to its us otherwise to detiver k another carrier on the ro in carrier of all or eny of, setd property over all o	ring any person or corporation in sual place of delivery at said desti- use to said destination, it is mutu-	penormed heraunder sit sification on the date of si Shipper heraby o	al de subject to all the bill of facility reprient. Perfifies that he is familiar with a rand the said terms and condition	g terms and conditions in the all the lading terms and co	governing clas- nditions in the	
HILISEPA			, , , , , , , , , , , , , , , , , , ,	CARRIER FREE	HOLD CARTA	GE INC.	->	
ER C	ALF U	FUSEPA	4	PER A	Zingent,	Las Juli	1 mars	- - 3
				DATE -/9	110 /			
ermanent post-offic	ce address of	f shipper.	DON NEW PORT OF SOY INK	STYLE CF3654 @ 20	03 LABELIMASTER® (80	0) 621-5808 www.lab	elmaster.com	n

Carrier No. ___

Modern Landfill

4400 Mt. Hisgah Hd. York, PA 17406 (717) 246-2686 Fax (717) 244-5580



Ticket:

078152

Date:

07/12/10

Time In: Time Out: 10:11 am 10:43 am

Customer Copy

Vehicle:

218626 ROLL OFF DEP#: VIN#

WH# 0754 FCI

Container/Trailer/DEP#:

SEACOAST ENVIRONMENTAL SERVICES INC

00 Gross Weight

Rate

54,880.00 Ib

Customer:

000826

Tare Weight

28,260.00 lb

716 NEWMAN SPRINGS ROAD, PMB 292

Net Weight

26,620.00 lb

LINCROFT, NJ 07738

Net Tons

Disposal

13.31 TN

Reference:

Contract/Profile: 3819109167

Quantity

Yards

20.00 YD

Manifest: 071210-2/290591

Generator: USEPA REG II

Origin: NEW YORK STATE (NY) Materials & Services W [11]

SW-DRILLING MUD/SOILS

13.31

Unit ' ΤŃ

Check #

Net Amount:

Tendered:

Change:

Driver

Weighmaster

MYRTLE CURTIN 061389

FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, N @ 28-5010 (732) 462-1001 • FAX (732) 308 J924

BILL OF LADING FCI EPA ID NO. NJD054126164

350 Pigeon Point Road New Castle, DE 19728 Phone: (302) 658-2005 175 Barfow Mun. Airport Darkow TL 20020

Phone: (863) 533-4599

5533 Dunham Road Marie Heights, CH 65137 Phone: (330) 835-3473

108 Monahan Avenue Dunmerto, PA 18512 Phone: (570) 342-7232

132 Myrtle Beach Hwy. Sumter, SC 2915? Phone: (803) 773-2611 Fax: (803) 773-2942

Fax: (302) 658-6229	02) 658-6229 Fax: (863) 533-1613 Fax: (330) 835-3732 Fax: (570						Fax: (803) 773-	2942		
SHIPPER NAME/ADDRESS USECON		PHONE LAREA CODEL	1-85	2-11	09					
ZSICUNTON B		TRACTOR	TRAILER	45		APPOINTMENT TIM	E 			
FCI REP. LOADING (PRINT)	PROCEDURE	EQUIP. SPOTT	EQUI	P. REMOV	VED.	TIME AT SHIPPER	. (MILITA	RY TIME ONL	.Y)	
				J. 54						
DANCALLAIAN	KEMO (ED S		S. C. S. Same		ARRIVAL TIME	DEP/	RTURE TIME		
COMMENTS OR DELAYS AT SHIPPER					ş	EQUIPMENT USED			1	
BROKER:	WO#:		ANIFES	T/D(ocu	MENT NO.				
PO#:]wo#:/	W. S. W. Sandari	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	ta i jili serial		
PROPER U.S. D.O.T. SHIPP		D.O.T. NA. UM DIO.	PACKING GROUP	NO. CONT.	CONT		UNIT MEASURE	WASTE NO.	FORM	
10-Hamrest										
2										
3							1			
SPECIAL HANDLING INSTRUCTIONS II	NCLUDING CONTAINER B	EXEMPTION NUMBER.]	
			, ép						j	
SHIPPER'S CERTIFICATION: This is to transportation according to the applicable named. The consignee can and will acce	e regulations of the Departr	ment of Transportation, U.S.	EPA and the	State. The	materia	als described above w	vere consigned	to the Trans	ion for sporter	
Payment to the contractor for waste remove the contractor.	al does not constitute paym	ent to the carrier and if the co	intractor does i	not pay the	e carrier	, the shipper is obligate	ed to pay the ag	reed rate off	ered to	
PLEASE PRINT NAME/TITLE		SHIPPER'S SIGNATU	RE /s			1	DATE LOADE	 B		
Frak Riberson	,	X Frank	Mize				7./	9. /1		
CCAG KCD-12		I HAVE READ THE ABO	IVE AND UNDERST	AND AND A	SREE TO A	ALL OF ITS CONTENT.				
CONSIGNEE NAME/ADDRESS		PHONE			ŀ					
MODERN LAND		,						1 -1 1.		
uddo ma bee	au Ph	(AREA CODE)	TRAILER			APPOINTMENT TIME				
		· · · · · · · · · · · · · · · · · · ·	4 s - 45 h limited L. 5		Ì	en a Great and a state	me Okan e tto okanant	والمعارية والمعارية		
VORK PA.		747	<u> </u>			e e e e e e e e e e e e e e e e e e e		<u> </u>		
FOI REP. UNLOADING (PRINT)	PROCEDURE	EQUIP. SPOTTE	D EQUIF	P. REMOV	ED	TIME AT CONSIGNI	EE (MILITAI	TY TIME ONLY) <u> </u>	
2/2011				les		ARRIVAL TIME	DEPA	RTURE TIME		
COMMENTS OR DELAYS AT CONSIGN	EE .				į	EQUIPMENT USED			}	
			ā		į					
PLEASE PRINT NAME/TITLE		CONSIGNEE SIGNATI)RE				DATE UNLOA	DED		
T. Shorbin		X	1	Company , was a sure	·····		· · · · · · · · · · · · · · · · · · ·	DAY	<u>_</u>	
AR H-0257	WD 11MU 167	MO 11 4 400		UPW-01	100713	OH	77 1	7705		
OT OT-HW-307	MD HWH-167 2001-CPV-2335	MO H-1490 NO WH-429		OPW-01			TX 40		ļ	
DE DE-HW-203	ME ME-HWT-47	NH TNH-0047	ON	ITARIO, C	CANAD	A A 840943		PW-019071:	3-OH	
DE-SW-203 IL UPW-0190713-OH	ME-WOT-47 MI UPW-0190713-OH	NJ S-2265 15939		PA-AH- JEBEC, C		QC-6ML-047				

MA MA-294

MN UPW-0190713-OH

NY NJ-113

RI RI-535

Modern Landfill

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5588



Ticket Date: 078048

07/12/10

Time In: Time Out: 6:58 am 7:26 am

Scalehouse Copy

Vehicle:

218747 ROLL OFF

DEP#: 008902

WH#0754 FREEHOLD CARTAGE INC. 03 Gross Weight

47,480.00 lb

Container/Trailer/DEP#:

000826

SEACOAST ENVIRONMENTAL SERVICES INC

Tare Weight

30,100.00 lb

Customer:

716 NEWMAN SPRINGS ROAD, PMB 292

Materials & Services

Net Weight

Rate

17,380.00 lb

LINCROFT, NJ 07738

Net Tons

8.69 TN

Reference:

Origin:

Contract/Profile: 3819109167

Yards

20.00 YD

Manifest: 71210-1/114775

Generator: USEPA REG II

Disposa!

NEW YORK STATE (NY)

W[11]

SW-DRILLING MUD/SOILS

8.69

Quantity

Unit TN

Check #

Net Amount:

Tendered: Change:

Weighmaster Driver_

MYRTLE CURTIN 061389

Permanent post-office address of shipper.

DATE

STYLE CF365-4 @ 2003 LABELI ASTER @ (800) 621-5803 www.labelmaster.com

FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010 (732) 462-1001 • FAX (732) 308-0924

FCI EPA ID NO. NJD054126164

350 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005 Fax: (302) 658-6229

175 Bartow Mun. Airport Bartow, FL 33830 Thone (863) 333-4599 Fax: (863) 533-1613

5533 Dunham Road Maple Heights, OH 44137 Phone (330) 835-3473 Fax: (330) 835-3732

108 Monahan Avenue Dunmore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367

132 Myrtle Beach Hwy. Sumter, SC 29153 Phone: (803) 773-2611 Fax: (803) 773-2942

SHIPPI	R NAME/ADDRESS		PHONE		1]	1 1 1 1	1 1	1 1 1	,
US EM MESINA				CODE)		•			# B 100	ou l	
			TRACT		TRAILER			APPOINTMENTTIME			
	chara Chia	S. L. J. J. S. S.	11/Y 6								
FCI RE	P. LOADING (PRINT)	PROC	EDURE .	EQUIP. SPOTTE	o jeouii	- REMO	/a ;	TIME AT SHIPPER	AMETO	HRY DIME ONL)	g. 二、三 基金公
	and the state of t							ARAIVAL TIME	D⊟	ARTURE TOME	
COMM	ENTS OR DELAYS AT SHIPPE	₹			TT-N _{MO}		.	EQUIPMENT USED		1 to 1 to 1	
					٤ ت <u>خ</u> ستور م	6.25		A It was		and the second second second second second second second second second second second second second second seco	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
BRO	(ER:			and the same of th		7/5	noit.	Went no.			
PO#		VVO#		2 10 1	7.11.43 g) 1
120	PROPER U.S. D.O.T. SHIPI	PING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
1	1010/6/	2 4/6	WZ	11142	ا المحمومي ويستعيد المعرفية	والمحتاج المتحادي	A. S. S.		A speed	ا مید	
2	*				3 + 1 - 1 - 1						
3						`					1
SPECL	AL HANDLING INSTRUCTIONS	INCLUDING CON	TAINER EXEMPTI	ON NUMBER.	·	<u> </u>	<u>!</u>	F	<u> </u>	<u>. </u>	
Sec.		endigen en en en en en en en en en en en en e							;		., 1
SHIPP	ER'S CERTIFICATION: This is t	o certify that the	above named mate	erials are properly	classified, des	cribed, p	ackaged	, marked and labeled a	and are in	proper conditi	ion for
	rtation according to the applicable. The consignee can and will acc										sporter :
Payme the con	nt to the contractor for waste remo tractor.	ovai does not const	itute payment to the	canier and if the co	ntractor does 1	oi pay iix	e camer.	the shipper is obligated	topey the a	greed rate offe	ered to
	E PRINT NAME/TITLE		SHI	PPER'S SIGNATUI	RE _{ASS}	,	2.	\ D	TE LOAD	ED	
San &	ak Rina		Х	Jak. 1		v. 3-3≥		(sir/i)		100	
		273	;	HAVE READ THE ASO	VE AND UNDERST	AND AND A	GREE TO A	LLOFITS CONTENT.	и̂о.	DAY	YF.
CONSI	GNEE NAME/ADDRESS		PHONE				4				
(Line			TRACT	OR T	FRAILER			APPOINTMENT TIME:	2		
FCI RE	P. UNLOADING (PRINT)	PROCE	EDURE	EQUIP. SPOTTE	D EQUIF	: REMO\	ÆD.	TIME AT CONSIGNEE	(MILIT)	ARY TIME ONL)	2
CONT.	ENTS OR DELAYS AT CONSIG	<u>(</u>	<u> 437 </u>					ARRIVAL TIME EQUIPMENT USED	DEP	ARTURE TIME	
^			i ja			•		Z.,			
PLEAS	PRINT NAME/TITLE		100	LOIONEE	105				**************************************	in the second second second second	
, Literaci	3 Sherbies		X	VSIGNEE SIGNATO	THE C		oversteer for a consistent	gues compressed distribution in the	TE UNLO	r 19 / / / / / / / / / / / / / / / / / /	
	*								MO,	DAY	YB.
AR H	-0257 T-HW-307	MD HWH-167 2001-OPV-2	2335	MO H-1490		UPW-0				10705	
DE D	E-HW-203	ME ME-HWT-47	7	ND WH-429 NH TNH-0047		: UPW-0 ITARIO, (OH A 840943		l1602 JPW-019071:	3-OH
	E-SW-203 PW-0190713-OH	ME-WOT-4: ME-UPW-01907		NJ S-2265 15939		PA-AH-		QC-6ML-047			
MA M		MN UPW-01907	13-OH	NY NJ-113		RI-535					

Modern Landfill

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2666 Fax (717) 244-5588

Container/Trailer/DEP#:



Ticket

078449

Date: Time In: 07/13/10

Time Out:

9:59 am 10:26 am

Vehicle:

Customer Copy 218652 ROLL OFF

DEP#:

888800

WH#0754 FREEHOLD CARTAGE INC.

03 Gross Weight

54,600.00 lb

Customer:

000826

SEACOAST ENVIRONMENTAL SERVICES INC

Tare Weight

29,140.00 lb

716 NEWMAN SPRINGS ROAD, PMB 292

Net Weight

25,460.00 lb

LINCROFT, NJ 07738

Net Tons

12.73 TN

Reference:

Origin:

Contract/Profile: 3819109167

Manifest: 071310-3/303741

Generator: USEPA REG II

Yards

20.00 YD

Materials & Services

Quantity

Rate

Disposal

NEW YORK STATE (NY)

VV [11]

SW-DRILLING MUD/SOILS

12.73

Unit IN

Check #

Net Amount:

Tendered:

Change:

Driver_

Weighmaster

MYRTLE CURTIN 061389

1	1	FREI	CHOLD CARTAC		*	Date _	11:41	<u>fo</u>
Page			(Name of c		; SCAC) 			î.
TO: Consignee Mo	ODERI	COD must epoper delical consignación name of a	s otherwise provided in Item 430, Sec. 1.	251 C	PA REGION I LINTON RD	I/ROOSEV	ELT	
44	OÙ MT	PISGAH RD		Street City GARI	DEN CITY	StateNY	Zip Code	
City	ORK	State, PA	Zip Code	24 hr. Emergency Co	ontact Tel, No63	1-852-4109		
Route						Vehick Numb		
No. of Units & Container Type	HM	Proper Shipping Name, Hazard (UN or NA Number, Packing Gr	ASIC DESCRIPTION Class UN or NA Number, Pro oup or Hazard Class, I	oper Shipping Name, Packing Group	TOTAL QUANTITY [Weight, Volume, Gailons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 D/T	, marting	NON HAZA	RDOUS, NON RI	EGULATED	12-6	S7)	1	
	in recognition	(SOIL)		,	TONS			
	The State of the S	CONTAIN	er <u>9837</u>					
	COLORGI: EXTENS ACT	APPROVA	L# <u>109167</u>					
	ektrization (1)							
	A CONTRACTOR OF THE PARTY OF TH							
	i kili cyzyczy							
					-			
		RECEIVED	BÝ:					
		DATE:	7.13/	<u> </u>				
								_
Note (1) Where the	rate is depend	NDERED: YES NO E	I hereby declare that the contents of this					-
agreed or declared value be not exceeding	of the property i	ared value of the property, as follows: "The s hereby specifically stated by the shipper to per secilly a limitation of the carrier's liability at secilly a limitation of the liability at secilly a limitation of the liability at secilly at secilly at sec	consignment are fully and accurately described above by the proper shipping name and are classified, packaged marked and labolical placed and and are	COD	. Amt: \$	C.O.D. F PREPAIL COLLEG		
a release or a value de the camer's liability or de provided by such provision	claration by the clare a value, the 15. See NMFC Its	shipper and the shipper does not release carrier's liability shall be limited to the extent em 172.	in all respects in proper condition to transport according to applicable international and national governmental	r <u>[</u>	onditions, if this shipment is to be do in the consignor, the consignor s			
(3) Commodities requiring must be so marked and p) special ਆ ਕਰੋਜ਼ੀ ackaged as to e Freight Bills and	tional care or estention in handling or stowing (issure safe transportation, See Section 2(e) of i Statements of Charges and Section 1(a) of	regulations. Signature	The same shall not make राजांग्री कर्त्य की other क्षेत्रपंत लोकप्	delivery of this shipment without ros. [grature of Consignor)	seyment of FRECHT PI except when right is check	box et	are to be
the tent (the pos nati	property describe to of packages or word carrier bei session of the pro- ton, if on its route	I to the classifications and tenths in effect on the de- side above in apparent good order, except as note inknown), marked, consigned, and destined as in no understood throughout this contract as mean purely writer the contract) agrees to pany to de- citients to deliver to another carrier on the ro-	the of the lasters of this BBL of Lasterry. If (contents and condition of conditions above which said carrier ling any person or corporation in authorized of definery at said destitute to said destinated to said destinated. It is mutu-	tination and as to seem performed becaused sha silication on the date of silication on the date of silication on the date of silication on the date of silication on the date of silication on the date of silication of the date of silication of the date of silication of the date of silication of the date of silication of the date of silication of the date of silication of the date of silication of the date of silication of the date of silication of the date of silication of the date of silication of silication of the date of silication of silicat	party at any time interested in all party as any time interested in all the bull of ladir hipment. Destribes that he is familiar with a and the said terms and condition	or any said preparty, that ex- g terms and conditions in the	en, service to be e governing dies-	collect
SHIFF SHEPA	REGIO	·	and become or seast tortic to com-	CARRIERFREE	HOLD CART	AGE INC.	<u>- ,</u>	
PER PER		OF US EPA	1	PER			<u> </u>	3
				DATE 3	<u> </u>	9	**	
Permanent post-offic	ce address o	f shipper.	DOL RECYCLED PAPER SOY BINE SOY BINE	STYLE CF365-4 @ 20	003 LABELMASTER (80	00) 621-5808 www.la	elmaster.con	n

Carrier No. _



FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010 (732) 462-1001 • FAX (732) 308-0924

BILL OF LADING FCI EPA ID NO. NID054126164

350 Pigeon Point Road New Castle, DE 19720 Phone (302) 653-2005 Fax: (302) 658-6229

175 Bartow Mun. Autport Bartow, FL 33830 Phone: (863) 533-4595 Fax: (863) 533-1613

5533 Dunham Road Maple Heights, OH 44137 . Fax: (330) 835-3732

108 Monahan Avenue Dunmore, PA 18512 Phone (570) 342-7232 Fax: (570) 342-7367 132 Myrtle Beach Hwy. Sumter, SC 29153 Phone: (803) 773-2611 Fax: (803):773-2942

SHIPPER NAME/ADDRESS	PHON	(CÓDE)							-
Lacus 11. La 1111	TRAC		TRAILER			APPOINTMENT TO	Æ .		
ECLREP. LOADING (PRINT) PROCE	DURE	EQUIP SPOTTE	EQUI	P. REMO	/ED	TIME AT SHIPPER		ARY TIME ONL	Service Control
COMMENTS OR DELAYS AT SHIPPER						ARRIVAL TIME EQUIPMENT USED	23.5.50.00.00.00.00.00.00.00.00.00.00.00.0	ARTURE TIME	
	and the second second second		I a					e vive een	
BROKER: PO# WO# **		W	ANIFES	T/D() DCUI	MENT NO.			
(S) PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT	CONT.	NET OLIANTITY	UNIT ME+SUPE	WASTE NO.	FORM
More Hoz.	Now 2	La ,	,		On				
2	Sol								
3									
SPECIAL HANDLING INSTRUCTIONS INCLUDING CONT	AINER EXEMPTI	ON NUMBER.			2				
SHIPPER'S CERTIFICATION: This is to certify that the a transportation according to the applicable regulations of the named. The consignee can and will accept the shipment at	e Denemment of T	ransonriskon (IS)	FPA and the S	State The	erraterral	is decreined aires w	ests tracione	et the thic France	tion for
Paymentilo the contractor for waste removal does not constitute contractor.	ue payment to the	: Canter ਕਾਰ ਜੋ ਜ਼ਿੰਦ co	ntractor does r	not pay the	camer,	the shipper is obligat	ed to pay the a	greed rate off	ered to
PLEASE PRINT NAME/TITLE	. 1	PPER'S SIGNATUI	RE				DATELGADE	D	
I Carle House	X	THAVEREAD THE ABO	VE AND UNDERST	A CIVA CIVA	FEE TO A	LL OF ITS CONTENT.	#0.	DAY	YR.
CONSIGNEE NAME/ADDRESS	PHONE (AREA) TRACT	CODE	TRAILER	nerstiewerte	¥ .37.7	APPOINTMENT TIME		1 1	
FCI REP. UNLOADING (PŘINT) PROCEI COMMENTS OR DELAYS AT CONSIGNEE	OURE	EQUIP SPOTTE	D EQUIP	PEMOV		TIME AT CONSIGN		PY TIME OND 2 VETURE TIME	
COMMENTS OF DELAYS AT CONSIGNEE					E	EQUIPMENT USED		cong.	į
PLEASE PRINT NAME/TITLE	X	VSIGNEE SIGNATU	JRE				DATE UNLOA		YR
AR H-0257 MD HWH-167 CT CT-HW-307 2001-OPV-23 DE DE-HW-203 ME ME-HWT-47 DE-SW-203 ME-WOT-47 IL UPW-0190713-OH MI UPW-019071 MA MA-294 MN UPW-019071	3-OH	MO H-1490 ND WH-429 NH TNH-0047 NJ S-2265 15939 NY N L113	OK ON PA QU	PA-AH-	190713-0 ANADA 0067 MADA		TX 4 WI 1 WV U		3-OH

NÝ NJ-113

RI RI-535

Modern Landfill

4400 Mt. Pisgah Hd. York, PA 17406 (717) 246-2686 FBX (717) 244-5588



Ticket:

078373

Date:

07/13/10

Time In: Time Out: 6:53 am 8:08 am

Customer Copy DEP#: 008902 Vehicle:

WH#0754 FREEHOLD CARTAGE INC.

Container/Trailer/DEP#:

SEACOAST ENVIRONMENTAL SERVICES INC

00 Gross Weight

Rate

50,140,00 lb

Customer:

000826

Tare Weight

29,120.00 lb

716 NEWMAN SPRINGS ROAD, PMB 292

Net Weight

21,020.00 lb

LINCROFT, NJ 07738

Net Tons

10.51 TN

Reference:

Contract/Profile: 3819109167

Yards

20.00 YD

Manifest: 071310-1/211539

VV [11] SW-DRILLING MUD/SOILS

Generator: USEPA REG!!

10.51

Origin: NEW YORK STATE (NY.) Materials & Services

Quantity

Unit

Disposal

TN

Check #

Net Amount:

l endered:

Change:

Driver____

Weighmaster_

MYRTLE CURTIN 061389

ś		intended solely for filing o	r record.	-		Carrier No.		
-		TO THE	HOLD CARTAG	E INC				
1 Page c	1 x	FREE	(Name of c		(SCAC)	. Date	7/9/10	
TO:		OO must appear before christyhoo's name or as.	omensise provided in Norm 430, Sec. 1.	251 C	PA REGION : LINTON RD	II/ROOSE	VELT	
440	0 MT I	PISGAH RD		Street CADI	DEN CITY	StateNY	Zip Code	
Street)RK	. PA	Zip Code	City GARI	YEAR CLI I	Ordie1 ()	Zip Code	
City		State,	Zip Oode		ontact Tel. No6;		0 nicle	
Route	-		SIC DESCRIPTION		TOTAL QUANTITY	Nur	nber	CHARGES
No. of Units & Container Type	HM	Proper Shipping Name, Hazard C UN or NA Number, Packing Gro	lass UN or NA Number, Pro up or Hazard Class, I	oper Shipping Name, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)	RATE	(For Carrier Use Only)
1 D/T			RDOUS, NON RI	EGULATED	17 - 4	<u> </u>		
		(SOIL)	· **		TONS			·
		CONTAINE	R			<u> </u>		
		APPROVAI	_# <u>109167</u>				_	
	, , , , , , , , , , , , , , , , , , ,	÷						-
		•			·	-		sty
						1		·
			(
	**************************************	RECEIVED	BY:					
•	-	DATE:	19/14	<u> 101011</u>	<u> </u>		1.	
				`.		-		
	The state of the s			3			danich de la constant	
Note (1) Where the	rate is depende	NDERED: YES NO and on value, shippers are required to state	I hereby declare that the contents of th					
specifically in writing the agreed or declared value be not expecting (2) Where the applicable to	of the property i	ared value of the property, as follows: The shereby specifically stated by the shipper to let the carter's leability absent	consignment are fully and accurate described above by the proper shippir name and are classified, package market and labelled piaceated, and er in all respects in proper condition in	COD	Amt \$	COL PRE C.O.	D. FEE: PAID III LECT II S	**************************************
the carrier's liability or de provided by such provision (3) Commodities requiring	clare a value, the ns. See NMFC ltd or special or addit	shipper and the shipper does not release carrier's liability shall be limited to the extent sh 172. Small care or attention in bandling or stowing is ure safe transportation. See Section 2(e) of	transport according to applicable international and national governmenta regulations.	le Subject to Section 7 of the of consignee without recourse of tollowers statement.	conditions, if this stripment is to be on the consignor, the consignor of delivery of this stripment with	shall sign the CHAI	RGES S REIGHT CHARC	
item 360, Bills of Lading, the Contract Terms and C	Freight Bills and	Statements of Charges and Section 1(a) of	Signatur		Signature of Consignar)	except	HT PREPAID Check when box at checked	k box if charges are to be collect
the ten (thi poor nat	property describe ts of packages un a word carrier be- session of the pro- ion, if on its route	(to the classifications and seriffs in effect on the data classown), marked, consigned, and destined as in on understand throughout this contract as mean party under the commant) agrees to carry to its us otherwise to deliver to another carrier on the for the carrier of all or any of, said property over all or	d (contents and condition of con- dicated above which said camer sing any person or corporation in the party of stempty at said steel- ate to said destination, it is mutu-	performed hereunder si sification on the date of a Shipper hereby	certifies that he is familiar with an and the said terms and condit	ding terms and conditions half the lading terms a	in the governing clas	ş- •
SHIFTEREPA				CARRIERFREE	HOLD CART	TAGE INC		
		DF US EPA	<u> </u>	PER A	Migales			- 3
F 1 * *	: -: } ¹ ¹			DATE	7-99-11)		-
Permanent post-offi	ce address o	f shipper.	TON RECACED WATER STREET, LEGISLAND	STYLE CF365-4 © 2	003 LABEL MASTER® (800) 621-5808 WW	u.labelmaster.co	ım

FCD

FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010 (732) 462-1001 • FAX (732) 308-0924

BILL OF LADING FCI EPA ID NO. NJD054126164

Q

114 Schoolground Rd. Branford, CT 06405 Phone: (203) 483-5964 Fax: (203) 483-5984 350 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005 Fax: (302) 658-6229

175 Bartow Mun. Airport Bartow, FL 33830 Phone: (863) 533-4599 Fax: (863) 533-1613 5533 Dunhara Road Maple Heights, OH 44137 Phone: (330) 835-3473 Fax: (330) 835-3732 108 Monahan Avenue Dunmore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367 40 Botilevard St. Sumter, SC 29150 Phone: (803) 773-2611 Fax: (803) 773-2942

	1 ax. (200) 700-0707		Lax (302) 000-022		1 (000) 000								
SHIP	PER NAME/ADDRE	SS			PHON	E			}	<u>, , , , , , , , , , , , , , , , , , , </u>	, , ,	1 1 1	ŧ !
	er al-free dil	gay s	To be	•	}	n n			ł		1 1 1		{ }
		N. 5.	1		(AREA	CODE)		···········					3.53×5.75
					TRACT	TOR .	TRAILER			APPOINTMENT TH	VE.		
	1	₽ .		and the same of th	j	1 10 10 11	1.30	V.Ž	3				
			512.57		1	14			Į				
FCII	REP. LOADING (PRI	NT)		PROCEDURE	<u> </u>	EQUIP SPOTE	(En Selsconi	P. REMO	VER 1	TIME AT SHIPPE	D JMIITI	BY TIME ON	V
		· · · · · · · · · · · · · · · · · · ·		HOOLDONE									
	10. sem 42. 20 - And	- J	: Ashana	NO MARI	April 1								
					1 10-		1 1	100	2016.0	MIS JAVIEBA		ARTURE TIME	
CON	MMENTS OR DELAY	S AT SH	IPPER	•					1	EQUIPMENT USE)		
									}				
		- 1											
	OKER:							100000000000000000000000000000000000000	April 100				爱 安安
DC	UNCH	3650											
PΟ	#	(- K	- Iw	О#		ľ	<i>M</i> ANIFES	שוו	966	MENT NO.			**************************************
Carrier S	1	26.250.523.03	erse managers and	5. Co. (2.07) 5. 10 (1.07)	100 C		1	A ALCOHOLOGICA	(60) (60) (60)	T		<u>Crossessi nomo a</u>	ACPOPER SOL
(X)	PROPER	J.S. D.O.T.	SHIPPING NAME	U.S. (D.O.T.	NA/UN/NO.	PACKING	NO.	CONT		UNIT	WASTE	FORM
5,158				HAZAHDO	US CLASS	10.000	GROUP	CONT.	TYPE	QUANTITY	MEASURE	NO.	
			· · · · · · · · · · · · · · · · · · ·	}		ł	Į	ſ	{ .	l	. - [Ì
		5. ₅₀] {	Gen Birt	1		\$	+	}	1. 1	T 5 5 2 1			5
						1	 	1	1	1			1
	[2]	*		}		1	}	1	ļ	1	} }		}
	 					 	 	 	 				
	[3]			}		ł		ļ	}	}	, ,		ļ
							٠	<u> </u>					
SPE	CIAL HANDLING IN	STRUCTI	ONS INCLUDI	NG CONTAINER E	EXEMPT	ION NUMBER:	1 -						
	\$ 1.		1	di roma	2 5-		•						
	174		URS. I		Floring	A. A. A.							
SHIF	PPER'S CERTIFICA	TON: Th	is is to certify t	hat the above nar	ned mat	erials are properi	classified, de	scribed, r	ackage	d, marked and labe	led and are in	proper cond	ition for
trans	sportation according	to the apr	olicable requiat	ions of the Depart	ment of T	ransportation, U.S.	S. EPA and the	State. Th	e materi	als described above	were consigne	d to the Trar	sporter
nam	ed. The consignee c	an and wi	ill accept the sh	ipment and has a	valid per	mit to do so if requ	uired. I certify th	at the for	egoing is	s true and correct to	the best of my	knowledge.	
Pavr	ment to the contractor	for waste	removal does i	on constitute navm	ent to the	carrier and if the	contractor does	not nav th	e carrie	r, the shipper is oblig	ated to pay the a	oreed rate of	fered to
tne c	contractor.						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1 m o a mp p o m o a mg.		•	
PLE	ASE PRINT NAME/T	ITLE	······································		SH	IPPER'S SIGNAT	URE				DATELOAD	Dogwar	Sales i
į,	et en en en en en en en en en en en en en				}	4.5-4.5		ŧ .					
1	178 B. B. B.				X				-,:	 		#12 W	
<u> </u>			· · · · · · · · · · · · · · · · · · ·			I HAVE READ THE A	SOVE AND UNDERS	TAND AND	GREE TO	ALL OF ITS CONTENT.	MO.	DAY	YR.
CON	SIGNEE NAME/ADI	PESS	 ,		PHON				7				
		a lagrafi			1					1111	1 1 1	1 1	- {
<i>∯ 1.,</i> 5	read the file of the			. 5	(AREA	CODE)			ſ		1 1 1	} } }	_ [
	-	1			TRACT	TOR .	TRAILER	.:		APPOINTMENT TI	ME .	第一个一个	療語法
	1. 5 60	1			Į	1			Ì		TO THE SCHOOL		AMA CO
		-			ــــــــــــــــــــــــــــــــــــــ	And the second s	Inches and the same	·					
FCI [REP. UNLOADING (F	(דמוּקי		PROCEDURE		EQUIP SPOT	ED EQUI	P. REMO	VED	TIME AT CONSIG	NEE : (MIUT/	RYTIMEON	Υ):
		1	and Artis	N. H. 193 A.						ARRIVAL TIM	E DEP	ARTURE TIME	
CON	MENTS OR DELAY	S AT CO	NSIGNEE			Control of Section Leadings				EQUIPMENT USE			
		1											
DI E	ASE PRINT NAME/T				722	AICIONIEE CICH	TUDE				DATE UNLO	NDED -	\$66 <u>2045</u>
	ASE PRIMI NAME/I	III LE			}00	NSIGNEE SIGNA	TURE				DATE DINEO	ישבט ,	
		1			X		the large of the				1		
					^						MO	DAY -	YR.
											1935 532 2000 534 200 53 534		
	H-0257		MD HW			MO H-1490	0	H UPW-	0190713	3-OH	TX	10705	
	CT-HW-307			1-OPV-2335		ND WH-429		K UPW-			WI 1	11602	
DΕ	DE-HW-203			-HWT-47 -WOT-47		NH TNH-0047				A A 840943	WV I	JPW-01907	13-0!
11	DE-SW-203			-WOT-47 N-0190713-OH		NJ 5-2265		A PA-AH					
	UPW-0190713-OH MA-294			W-0190713-OH W-0190713-OH		15939				QC-6ML-047			
1411.4	1707-637		01	5,05,10-011		NY NJ-113	HI	RI-535)				

MOOFUL FAHAIII

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5588

Container/Trailer/DEP#:



Ticket.

078425

7:48 am

Date:

07/13/10

Time In:

Time Out: 9:27 am

Scalehouse Copy

Vehicle:

121776

TRUCK-TRAILER

307

DEP#: VIN

WH 0754 FREEHOLD 00 Gross Weight

Customer:

000826

SEACOAST ENVIRONMENTAL SERVICES INC

716 NEWMAN SPRINGS ROAD, PMB 292

Tare Weight

Rate

60,960.00 lb 34,720.00 lb

Net Weight

26,240.00 lb

LINCROFT, NJ 07738

Net Tons

Disposal

13.12 TN

Reference:

Materials & Services

Contract/Profile: 3819109167

Yards

20.00 YD

Manifest: 071310-2/74437

Quantity

Generator: USEPA REG II

Origin: NEW YORK STATE (NY)

W [11]

SW-DRILLING MUD/SOILS

13.12

Unit TN

Check # Net Amount:

> Tendered: Change:

Driver

Weighmaster

MYRTLE CURTIN 061389

Modern Landfill

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5588



Ticket:

078425

Date:

07/13/10 7:48 am

Time In: Time Out:

9:27 am

Customer Copy
121776 TRUCK-TRAILER Vehicle:

WH 0754 FREEHOLD

Container/Trailer/DEP#:

307

SEACOAST ENVIRONMENTAL SERVICES INC

00 Gross Weight

60,960.00 lb

Customer:

000826

Tare Weight

Rate

34,720.00 lb

716 NEWMAN SPRINGS ROAD, PMB 292

Net Weight

26,240.00 - Ю

LINCROFT, NJ 07738

Net Tons

13.12 TN

Reference:

Origin:

Manifest: 071310-2/74437

Contract/Profile: 3819109167

Yards

20.00 YD

Generator: USEPA REG II

Materials & Services

Quantity

Unit

Disposal

NEW YORK STATE (NY)

W [11]

SW-DRILLING MUD/SOILS

13.12

TN

Check#

Net Amount: Tendered:

Change:

Driver Weighmaster

MYRTLE CURTIN 061389

1 ;	FREEHOLD CARTA	AGE INC.		Data "	7 1461	
Page of	(Name	of carrier)	(SCAC)	Dai,	<u> </u>	
TO: Consignee MOD	the letters 'COD' must appear before consigned's name or as otherwise provided in Item 430. Sec.	Shipper US E	PA REGION I LINTON RD	I/ROOSEV	ELT	-
Street	MT PISGAH RD		DEN CITY	State NY		 ,
City	K PA Zip Code			States 4 T	Zip Code	
		24 hr. Emergency Co	ontact Tel. No63	1-852-4109 Vehicle	· ·	
Route	BASIC DESCRIPTION		TOTAL QUANTITY	Numbe WEIGHT)r	HARGES
No. of Units & Container Type	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, UN or NA Number, Packing Group Or Hazard Clas	Proper Shipping Name, s, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to \(Correction)	RATE (F	or Carrier Use Only)
1 D/T	NON HAZARDOUS, NON I	REGULATED			1	,
	(SOIL)	77 t =	TONS			
-	CONTAINER 9240					
2	APPROVAL # <u>109167</u>					
				•		
		· · · · · · · · · · · · · · · · · · ·				
				, 35		
	RECEIVED BY: Solved	Hatas		•		
	DATE: (200 / / / / / / / / / / / / / / / / / /	000 17	1			
	DAIL. COLFESCION	-1:611				•
	DS TENDERED: YES	REMIT C.O.D. TO: of this ADDRESS				
specifically in writing the agree agreed or declared value of the be not exceeding	ed or declared value of the property as follows: The property is hereby specifically stated by the shipper to described above by the proper shiname and are classified, pack	rately pipping aged. COD	Amt: \$	C.O.D. FI PREPAID	E: D	
a release or a value declarat	tion by the shipper and the shipper does not release in all respects in proper condition a value, the carrier's liability shall be limited to the extent transport according to applie	on for Subject to Section 7 of the o	conditions, if this shipment is to be do on the consignor, the consignor s	COLLECT elivered to the TOTAL CHARGE		
 Commodities requiring spectrust be so marked and package 	gal or additional care or attention in handling or stowing a regulations, ged as to ensure safe transportation. See Section 2(e) of int Bills and Statements of Charges and Section 1(a) of	The carrier shall not mak freight and all other lawful chai	e delivery of this shipment withou rges. Signature of Consignor)	t payment of FREIGHT PR except when dight is check	box at r	if charges are to be collect
RECEI the prope tents of t (the word possessionation, if	VED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, erry described above in apparent good order, except as noted (contents and condition of con- packages unknown), marked, consigned, and destined as indicated above which said carrier of carrier being understood throughout this contract as meaning any person or corporation in on of the property under the contract) agrees to carry to its usual place of delivery at said desti- on its route, otherwise to deliver to another carrier on the route to said destination. It is mutu- ed as to each carrier of all or any of, said property over all or any portion of said route to des-	tination and as to each performed hereunder s sification on the date of Shipper hereby	h party at any time interested in all thalf be subject to all the bill of ladir shipment. certifies that he is famillar with on and the said terms and conditio	or any said property, that eve ig terms and conditions in the all the lading terms and co	ery service to be e governing clas- onditions in the	
HEUSEPA R	EGION II	CARRIER FREE	CHOLD CART	AGE INC.		
ON BEHA	Alla (Frak Rehain)	PER BOLL	talalde			. 3
		DATE 7/20	The state of the s			
'ermanent post-office a	ddress of shipper.	STYLE CF365-4 ©2	2003, LABEL ASTER® (8)	00) 621-5808 www.lat	celmaster.com	

Carrier No: ___

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5588



Ticket

081969

Date: Time In:

07/27/10

Time Out:

11:14 am 12:20 pm

Scalehouse Copy DEP#: VIN#

Vehicle: Container/Trailer/DEP#:

218785 TRUCK-TRAILER

002980

WH#0754 FCI

360

00 Gross Weight

69,040.00 lb

Customer:

000826

SEACOAST ENVIRONMENTAL SERVICES INC

Tare Weight

33,620.00 lb

716 NEWMAN SPRINGS ROAD, PMB 292

Net Weight

35,420.00 lb

LINCROFT, NJ 07738

Contract/Profile: 3819109167

Net Tons

Disposal

17.71 TN

Reference:

Origin:

Yards

20.00 YD

Manifest: 72610/223370

Materials & Services

Quantity

Generator: USEPA REG II Unit

TN

NEW YORK STATE (NY)

VV [11]

SW-DRILLING MUD/SOILS

17.71

Rate

Check #

Net Amount:

Tendered:

Change:

Driver-

Weighmaster_

JODI WILLIAMS 059039

Modern Landfill

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5588



Ticket.

081969

Date:

07/27/10 11:14 am

Time In: Time Out:

12:20 pm

Vehicle:

218785

Customer Copy
5 TRUCK-TRAILER DEP#:

VIN#

WH#0754 FCI

Container/Trailer/DEP#:

360

002980

Customer.

000826

SEACOAST ENVIRONMENTAL SERVICES INC

Tare Weight

00 Gross Weight

69,040.00 lb 33,620.00 lb

716 NEWMAN SPRINGS ROAD, PMB 292

Net Weight

35,420.00 lb

LINCROFT, NJ 07738

Net Tons

17.71 TN

Reference:

Origin:

Contract/Profile: 3819109167

Yards

20.00 YD

Manifest: 72610/223370

Materials & Services

Quantity

Rate

Disposal

NEW YORK STATE (NY)

VV [11]

SW-DRILLING MUD/SOILS

17.71

Generator: USEPA REG II

Unit TN

JODI WILLIAMS 059039

Check # Net Amount: Tendered: Change:

Driver_

Weighmaster



P.O. BOX 5010 • FREEHOLD, NJ 07728-5010 (732) 462-1001 • FAX (932) 308-0924

BILL OF LADINC FCI EPA ID NO. NJD054126

350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fay- (302) 458,4220

175 Bartow Mun. Airport Bartow, FL 33830

5533 Dunham Road Maple Heights, OH 44137 108 Monahan Avenue Dunmore, PA 18512

132 Myrtle Beach Hwy, Sumter, SC 29153

Fax: (302) 658-6229	Fax: (863) 533-1		Phone: (330) 8: Fax: (330) 8:) 342-7367) 342-7367		773-2942
SHIPPER NAME/ADDRESS	KOSSEU.	PHON	E.	•					+ t 1
25/0	110-1885 6	S) (AREA	CODE					1.	·
		TRAC		TRAILER		[APPOINTMENT THM	E	
Garden Cita	1 NY		104			20000	<u> V</u>	•	
FCI REP. LOADING (PRINT)	9	DURE	EQUIP SPOT	1962 1974 1985 1986	P. REMO	A. 18 1. 18 1. 18 1.	TIME AT SHIPPER	(MHJT/	RYTIME ONLY)
13.Daldos	· 3	10 .	4460	3.21 G	7/7	7	<u>0/: 7</u>	> \ \ 	
COMMENTS OR DELAYS AT SHIPP		<u> </u>			0.000		ARRIVAL TIME	S DEP	ARTURE TIME
							7		944
						į	1/1095	5	CLID
BROKER:									
PO#	WO#	7277	<i>79</i> 1	MANIFES	TIDO	OCUI	MENT NO.		
(X)	4 - 200 Sec 250 Sec 250 Sec	U.S. D.O.T.		PACKING	NO.	CONT.	NET	UNIT	WASTE _
PROPER U.S. D.O.T. SHI	PPING NAME	HAZARDOUS CLASS	NA/UN/NO.	GROUP	CONT.	TYPE	QUANTITY	MEASURE	NO. F
Non RegN	on HAZ				0(Ym	150		
2 well Dil	1200				•				
3							1.		
SPECIAL HANDLING INSTRUCTION	S INCLUDING CONT	FAINER EXEMPTI	ON NUMBER	i		-	es de		· .
15939 De	Ecc/#	3561	<u> </u>					* •	•
SHIPPER'S CERTIFICATION: This is	to certify that the a	bove named mate	erials are properl	y classified, des	scribed, pa	ackaged,	marked and labele	d and are in p	proper condition
transportation according to the application named. The consignee can and will according to the application.	able regulations of the	e Department of T	ransportation, U.S	S. EPA and the	State, The	material	s described above v	rere consigner	d to the Transp
Payment to the contractor for waste ren the contractor.			and I want						
PLEASE PRINT NAME/TITLE	······································	SH	IPPER'S SIGNAT	URE /	<u> </u>		on the second	DATE LOADE	D
Frank R.C.		Y	Land roll				77.	07/3	7/2 // :
A PRINT			I HAVE READ THE A	BOVE AND UNDERS	TAND AND A	GREE TO AL	L OF ITS CONTENT.	MO.	DAY Y
CONSIGNEE NAME/ADDRESS	700ACI	PHON	Ē		·				
		/ADEA	CODE)						
	Married Community of the Community of th	TRACT		TRAILER		1	PPOINTMENT TIM		
YORKAA.				Je			-	•	
FCI REP. UNLOADING (PRINT)	PROCE	DURE	EQUIP SPOT	ED EQUI	P. REMOV	/ED	TIME AT CONSIGN	EE (MILITA	RY TIME ONLY)
CENK HO	- 1417-e	والمسأل المرابية		97/7	7		ABRIVAL TIME		RTURE TIME
COMMENTS OR DELAYS AT CONSI	GNEE		encore to the second	•		. [QUIPMENT USED	٠.	
		The second secon							
PLEASE PRINT NAME/TITLE		CO	NSIGNEE SIGNA	TURE				DATE UNLOA	DED -
	$\frac{1}{2}$	X	4 1.).				· · ·	1.	
								MO.	ĐAY Y

AR H-0257 CT CT-HW-307 MD HWH-167 2001-OPV-2335 ME ME-HWT-47

MO H-1490 ND WH-429 NH TNH.OO47 OH UPW-0190713-OH OK UPW-0190713-OH ONTARIO, CANADA A 840943 TX 40705 WI 11602 WV UPW-0190713

FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FEFHOLD, NJ 67728-5010 (732) 462-1001 • FAX (732) 308-0924 PCI EPA ID NO. NID054126164

S 303672

350 Pigeon Point Road New Castle, DE 19720 Pinone: (302) 658-2005 Fax: (302) 658-6229 175 Bartow Mun. Airport Bartow, FL 33830 Phone: (353) 555-4559 Fax: (863) 533-1613 5533 Dunham Road Maple Heights, OH 44137 Phone: (533) 555-3-73 Fax: (330) 835-3732 168 Monahan Avenue Dunmore, PA 18512 Sense (570) 342-7337 Fax: (570) 342-7367 152 Myrtie Beach Flwg: Sumter, SC 29153 Phone: (803) 773-2631 Fax: (803) 773-2942

Z riibb	ER MAME/ADDRESS		Pŧ	HONE "				9 4 14 4	7 % d	i : 7	,
1	TOOSEVELT .	and the first of	JIA	REA CODE)							
`			17	RACTOR	TRAILER			APPOINTMENT A	ital		erit e era Ligitaria differ Sala estendo
/	Corden Con	<u> </u>		105			<u> </u>				
FOTRE	EP. LOADING (PRINT)	PROC	EDURE	EOUIP.SP(NTED LEGU	P. P540	WED	TIME AT SHIPPE		VAY TUNE COV	M
,	Franklin Paris	1 5						agrival Tis	E DED	ARTURE TIME	
COM	MENTS OR DELAYS AT SHIPP	<u> </u>		Andrew Street Street	<u> </u>		<u></u>	EQUIPMENT USE	D		in the second
									1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	52	نىر يوگور ئىر يوگور ئىچىس
SHO	K É B			and the second s					nang si ng dipa Malakanan		
		W.C.#			MANIFE	51 / D	OCU	WENT NO.			
pai	PROPERUS D.O.T. SHI	PPING NAME	U.S. D.O.T	T. NATIM/NO	PACKING GROUP	NO.	CONT		UNIT WEASUPE	WASTE NO.	FORM
1	Mar Har M.	a territ	11/		13/1	1	4	1 20	4	11/3	5
2					۵ - اسپلیسیات		ر، قاعمسسان		, فعصصت		
3				Ì	ا المام			B.			
SPEC	IAL HANDLING INSTRUCTION	S INCLUDING CO	NTAINER EXE	MPTION NUMBER.					54		
		X							•		
					******			·			
SHIPP	ER'S CERTIFICATION: This is ortation according to the applica	to certify that the sole regulations of	above named the Departmen	l materials are proc n of Transportation,	erly classified, de U.S. EPA and the	scribed. State: Tr	packager re matem	t, marked and labe als described above	eled and are in a were consigne	proper cond of to the Tran	ition for asporter
named	i. The consignee can and will a	ccept the shipment	and has a valid	d permit to do so if r	equired. I certify the	at the for	egving is	true and correct to	the best of my	knowledge.	
	autio the commentor for waste rec ntractor.	nocion sock factor	sibile payment	tothe camer and ift	ಕಾರ್ಯವನ್ನು ಕಾಗುಂತ್ರ	norpey ê	ke cernier	, ine shipper is oblig	lajectio bavijue s	පු . පෙ ර කෙය ර	ಗೀಕ ಿರೆಯ
l	SE PRINT NAME/TITLE			SHIPPER'S SIGN	ATURE	हान्य			PATELOAD		
	fack Rdins			x -3	opt to the			*			e Ex
				I HARVE BEAD TH	ALE OF ITS CONTENT	NT CO					
CONS	IGNEE NAME/ADDRESS	. 19.000	P	HONE	····						
[]	Charley Li	of the second	ļ Ar Ē	IREA CODE			<u>.</u> 4		- 1		1 .1
			<u>,</u>	RACTOR	TRAILER			APPOINTMENT T	ME		9.33
l 9		, .	,	A debit			, ,				
FCI PI	EP. UNLOADING (PRINT)	PROC	EDURE	EOUIP SPO				TIME AT COMS		SKY TINE ON	i v
1		in the state of th	plant					**************************************			Magazia
COMB	ENTS OR DELAYS AT CONS		A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Total contract the	Sections and profit	ender eine Gebert		EQUIPMENT USE		ARTURETIME	
				d _{a sa}	ça.			D 13 /			
<u> </u>					ر بند د استاری از در معمود است. ا	1	K) 0 8				
PLEAS	SE PRINT NAME/TITLE	•	•	CONSIGNEE SIG	NATURE /	, A 44			DATEUNLO		
í F				XX	. ;		\				
				<u> </u>	Frank Linear of 19		قو		WO.	DAY	VR.
	1-0257	MD HWH-167 2001-OPV	-2335	MO H-1490		H UPW-				40705	
	CT-HW-307 SE-HW-203	ME MEHWY-	\$F	ND WH-42)K UPW- MTARAO,		I-OH A A840943		11602 UPW 01907	ദരംവ
ī	DE-SW-203	ME-WOT- MI UPW-0190		NJ S-2265	; P	A PA-A	H-0067	•	yeu		- Ģ- Ų PK
	JPW-0198713-OH #A-294	WAY GEAR-GIO		15939 NY NE-113		PESS		4 GC-6ML-647			

Permanen: post-office address of shipper.



STYLE CF365-4 & 2003 LAKELL ASTER \$ (80C) 821-5808 WWW.lobeltraster.com

Wodern Langtiii

4400 Mt. Pisgah Rd. York, PA 17406 245 2686 Fax (717) 244-5588



Ticket:

081967

Date:

07/27/10

Time In: Time Out: 11:18 am

12:19 pm

Scalehouse Cop 218820 TRUCK-TRAILER Vehicle:

WH#0754 FREEHOLD CARTAGE INC.

Container Trailer DEP#.

000826

4

SEACOAST ENVIRONMENTAL SERVICES INC

716 NEWMAN SPRINGS ROAD, PMS 292

00 Genes Weight

73,400,00 15

Tare Weight

35,280.00 lb

Net Weight

38,420,60 lb

LINCROFT, NJ 07738

Net Tons

Rate

19.05 TN

Reference

Origin

Customer:

Contract/Profile: 3819109167

Yards

0.00 YD

Manifest: 72610-2/303678

Generator: USEPA REG II

.ing

Disposei

NEW YORK STATE (NY)

[LI] VV

Materials & Services

SW-DRILLING MUD/SOILS

19.06

Quantity

Check #

Net Amount

Tendered:

Change:

Driver.

Weighmaster

MYRTLE CURTIN DE1388

Modern Landfill

4400 Mt. Pisoah Rd. York, PA 17406 (777) 245-2686 Fex (717) 244-5566



715 NEWMAN SPRINGS ROAD PMS 292

Ticket:

081967

Date:

07/27/10 11:18 am

Time In: Time:Out:

12:19 pm

Vehicle:

WH#0754 FREEHOLD CARTAGE INC.

Container/Trailer/DEP#.

432

80 Gross Weight

73,400,00 lb

Customer:

000826

SEACOAST ENVIRONMENTAL SERVICES INC

Tare Weight

35.280.00 lb

Net Weight

38,120,00 lb

LINCROFT, NJ 07738

Contract/Profile: 3819109167

Net Tons

19.06 TN

Reference:

Origin:

Generator: USEPA REG II

Yards

0.00 YD

Manifest: 72610-2/303678

Materials & Services

Quantity

المراجعة المراجعة

Cieposei

NEW YORK STATE (NY)

VV [11]

SW-DRILLING MUD/SOILS

19.06

TN

Rate

Net Amount

Tendered:

Change:

Check #

Weichmaster Driver

MYRTLE CLIRTIN 06:388

This Memorandul	is an acknowledgment that a Bill of Lading has been Bill of Lading, nor a copy or duplicate, covering the prointended solely for filing or record.	perty named herein, and	īs	Shipper No Carrier No.		
1 1 age of	FREEHOLD CARTAC		(SCAC)	Date	Ξ/12.	/ ₅
Disignee MODERN	OD" must appear before consigner's name or as otherwise provided in them 430, Sec. 1.		A REGION I	I/ROOSEVI	ELT	
4400 MT]	PISGAH RD		DEN CITY	StateNY Z	Zip Code	· · · · · · · · · · · · · · · · · · ·
y YORK	State, PA Zip Code	24 hr. Emergency Co	ntact Tel. No. <u>63</u>	1-852-4109		· · · · · · · · · · · · · · · · · · ·
pule:	DAGO DECORUTION		TOTAL QUANTITY	Vehicle Numbe WEIGHT		CHARGES
No. of Units & Container Type	Proper Shipping Name, Hazard Class UN or NA Number, Pr UN or NA Number, Racking Group or Hazard Class	oper Shipping Name, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)	RATE	(For Cemer Use Only)
1 D/T	NON HAZARDOUS, NON RI	EGULATED	£57.			***
	(SOIL)		TONS			
	CONTAINER 0901				4	
	APPROVAL # 109167					· · · · · · · · · · · · · · · · · · ·
			2			
	N 1997					
		<u>.</u>			T TO	
	RECEIVED BY:					
	DATE					
Security of the second of the second second	DERED: YES. 🗀 NO. 🖂	REMIT C.O.D. TO:				
echically in writing the agreed or deca reed or declared value of the property is not exceeding	at he wise stoppers are repaired to state. Thereby declare that the contents of the red water of the property, as pointed. The hereby specifically send by the stopper of destribed above by the proper stopper of the red and are classified, packages.	COD	Amt \$	C.O.D. F	ee oo	
Where the applicable teriff provisions spinelesses of a value declaration by the country by the country tracks to the provisions. See NMFC its availed by such provisions. See NMFC its	city a limitation of the carrier's limiting absent bitters and the stopper does not release the second of the control of carrier liability shall be finited to the extent in 172. International and nadoral governmental	e Surject to Sporter 7 of the co	nations, it was stipment is to be a line consigner. The consigner	COLLECTION OF THE CHARGE	F.E.] . . S . \	
ist be so marked and packaged as lo en	onal care or attention in handling or stowing regulations. sure safe fransplantation. See Section 2(e) of Statements of Charges and Section 1(e) of of such analysis. Signature	The carrier shall not make treight and all other lawful charg	delivery of this shipment withoutes	T payment of PRE	1000 Y	GES Action I disripes Tooled
the critically describe tents of packages for (the word carner bear possession of the pric nation, if on its route,	to the classifications and familis in effect on the date of the tissue of this Bill of Leding. Shows in equalities good order, it was a most of contents and inputition of our, investing, mention, compand, and destined as indicated above; which, said cannot gunderstood dipologhout this contract as meaning any pession of corporation in entry under the contract is present to carny to the usual places of delivery at said duetic contents to delivery in the meaning and destination. It is must be said destribution.	periomed hereunder do silication on the date of a Shipper hereby o	ertifies that he is familiar with and the said forms and condition	ng leans and committee in the all the lacting terms and c	s governing da onditions in 12	5-
ulvegreed as to east uldestEPA REGIO ON BEHALF O	caster of all or any of, said property over all or any postern of said suite to dec.	CARRIER FREE]		ÁGE INC.	77	7
n <i>4-(</i>		PER////A	ZaM.		erioles manegares,	
			no institution (0 /o	AM 604 20A0	Halmantar a	Contract of the second

New Castle, DE 19720

P.O. BOX 5010 . FREEHOLD NI 07728-5010

(732) 462-1001 · FAX (732) 308-0924

BILL OF LADING FCI EPA ID NO. NJD054126164

M 114841

132 Myrtle Beach Hiny. Sumter, SC 29153

175 Bartow Mnn. Airport Bartow, FL 33830 Phonie: (863) 553-4599

5555 Dunham Road Maple Heights, OH 44137 Phono: (330) 535-3173

108 Monahan Avenue Dunmore, PA 18512 Phone: (570) 342-7232

Phone: (803) 773-2611 Phone: (302) 638-2005 Fax: (803) 773-2942 Pax: (570) 342-7367 Fax: (302) 658-6229 Fax: (530) 883-9732 SHIPPER NAME/ADDRESS EPA. ROOSEUZLT MAII PHONE (AREA CODE GARDENCITYNY TRACTOR 446 0 EQUIP REMOVED PROCEDURE EOUIP, SPOTTED FOURPMENT USED MANIFEST/DOCUMENT NO. WO# 787441 PO#: (X) H23 U.S. D.O.T. HAZARDOUS CLASS NO. CONT. CONT. UNIT PACKING WASTE FORM NA/UN/NO. PROPER U.S. D.O.T. SHIPPING NAME GROUP QUANTITY MEASURE 2 3 SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER. SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge. Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the shipper is obligated to pay the agreed rate offered to the contractor. I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT CONSIGNEE NAME/ADDRESS PHONE MODERN (AREA CODE) TRACTOR TRAILER APPOINTMENT TIME EQUIP REMOVED EQUIPMENT USED PLEASE PRINT NAME/TITLE DATE UNLOADED CONSIGNEE SIGNATURE DAY AR H-0257 MD HWH-167 MO H-1490 OH UPW-0190713-OH TX 40705 2001-OPV-2335 **CT CT-HW-307** OK UPW-0190713-OH ND WH-429 WI 11602 ME-HWT-47 DE-HW-203 NH TNH-0047 ONTARIO, CANADA A 840943 WV-UPW-0190713-OH

White - FCI Original Yellow - FGI Billing

MA MA-294

DE-SW-203

UPW-0190713-OH

Blue - FCI Office/Customer Green - Retained by TSDF

ME-WOT-47

MN UPW-0190713-OH

UPW-0190713-OH

Gold - Retained by Generator

S-2265

15939

NY NJ-113

PA PA-AH-0067

AI- AI-535

QUEBEC, CANADA QC-6ML-047

M 114841

Modern Landfill

4400 Mt. Pisgah Rd. York, PA 17405 (717) 246-2686 Fax (717) 244-5588



081579

Date:

07/26/10

Time In: Time Out: 9:54 am 10:39 am

Scalehouse Copy TRUCK-TRAILER 218797

WH#0754 FREEHOLD CARTAGE INC.

59,300,00 lb

Container/Trailer/DEP#.

Vehicle:

4501

00 Gross Weight

35,020.00

Customer

SEACOAST ENVIRONMENTAL SERVICES INC

Tare Weight

Rate

24,280.00

716 NEWMAN SPRINGS ROAD, PMB 292

Net Weight

LINCROFT, NJ 07738

Net Tons-

12.14 TN

Contract/Froffie: 3819109167

Yords

0.00 YD

Reference:

Origin:

Manifest: W114841/1

Materials & Services

Quantity

Generator: USEPA REG II

Unit

Disposal

NEW YORK STATE (NY)

VV [11]

SW-DRILLING MUDISOILS

314

Check# Net Amount: Tendered: Change:

Driver

Weighmaster

MYRTLE CURTIN 061389

Modern Landfill

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686



Ticket:

081579

Date:

07/25/10

Time In:

9:54 am

Time Out:

10:39 am

tomer Copy DEP#

WH#0754 FREEHOLD CARTAGE INC.

Container/Trailer/DEP#

00 Gross Weight

59.300.00

Tare Weight

000826

SEACOAST ENVIRONMENTAL SERVICES INC

35.020.00 lb

Net Weight

24.280.00° lb

716 NEWMAN SPRINGS ROAD, PMB 292

Reference:

LINCROFT, NJ 07738

Contract/Profile: 3819109167

0.00 YD

Manifest: M114841/1

Quantily

Origin: NEW YORK STATE (NY) Materials & Services

SW-DRILLING MUDISOILS

12.14

Generator: --USEPA-REG-II

Net Amount

Tendered:

MYRTLE CURTIN 061389 ::



FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010 (732) 462-1001 • FAX (732) 308-0924

FCI EPA ID NO. NJD054126164

S 203000

350 Pigeon Point Road New Castle, DE 19720 Phone (302) 658-2005 Fax: (302) 658-6229 175 Bartow Mun. Airport Bartow, FL 33830 Phone: (863) 533-4599 Fax: (863) 533-1613 5533 Dunham Road Maple Heights, OH 44137 Phone: (330) 835-3473 Fax: (330) 835-3732 108 Monahan Avenue Dunmore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367 132 Mynle Beach Hwy. Sumter, SC 29153 Phone: (803) 773-2611 Fax: (803) 773-2942

SHIPPER NAME/ADDRESS	PHON	,					1-1-1		1
		CODE)							SALES AND REAL PROPERTY.
	TRACT	FOR	TRAILER			APPOINTMENT TIM			
FCI REP. LOADING (PRINT) PROCEDURI	E .	EQUIP. SPOTTI	ĒD EQU	IP. REMO	VED	TIME AT SHIPPER	(MILIT	ARY TIME ONL	<u>Y)</u>
	garante			3/2	3	<u> </u>		•	4 (1 to 1)
COMMENTS OR DELAYS AT SHIPPER	order(2)		<u> </u>	11-	Zirkin-L	ARRIVAL TIME EQUIPMENT USED	DEF	ARTURE TIME	549 g a Ja
COMMENTS OF DECK (O.A.) STATE CALL								1 114	
	i. Haringan	Santatan sahatan kecil	18 1 18 18 18 18 18 18 18 18 18 18 18 18	78-50 (P. 1585)	dro ecros	-400,000,000,000	e variet var Sant		
BROKER:	atës e sa të	n.	ABUEEC	ST (D)	OCU	MENITAIO	43 i		i Norm
PO#: WO#: 上	770	73 - N	IAMIFE	שיוופ	U-U	MENT NO.		14	<u> </u>
(X) PROPER U.S. D.O.T. SHIPPING NAME HAZA	U.S. D.O.T. ARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE		UNIT MEASURE	WASTE NO.	FORM
1 27274112 711177	1 ///	a faria	Andrew Constitution of the	Ĵŧ.	Yar			·	West of
2									
3									
SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINE	ER EXEMPTI	ON NUMBER.,							
							Elizabeth Control		
SHIPPER'S CERTIFICATION: This is to certify that the above	named mat	erials are properly	classified, de	scribed, p	ackage	d, marked and labele	d and are in	proper condi	ition for
transportation according to the applicable regulations of the Depnamed. The consignee can and will accept the shipment and ha	partment of T as a valid per	ransportation, U.S mit to do so if requ	. EPA and the ired. I certify ti	State. In	e materia egoing is	als described above v true and correct to the	rere consigner e best of my	knowledge.	sporter
Payment to the contractor for waste removal does not constitute p the contractor.	ayment to the	carrier and if the c	ontractor does	not pay th	e carrier	the shipper is obligat	ed to pay the a	greed rate of	fered to
PLEASE PRINT NAME/TITLE	SH	IPPER'S SIGNATI	JRE		100		DATELOAD	ED 3	12.3
Fact Est	X	I HAVE READ THE AB	THE AND LINDERS	TAND AND	CORETO	ALL OF THE CONTINUE	<u>- { </u>	DAY	∌ CLŽ YB.
CONSIGNEE NAME/ADDRESS	PHON		OVE AND BINDERS	TAND AND A	Sance 10	AL OF ITS CONTENT.	WIO.	2.5	
		with the second	An experience and the second s	.			1/1	11	
	TRACT	CODE)	TRAILER			APPOINTMENT TIM	_1_/1_/]? E//3//		
	18	1270							della della Tribada
FCI REP. UNLOADING (PRINT) PROCEDURE	Ę	EQUIP SPOTTI	ED EQU	IP. REMO	VED.	TIME AT CONSIGN	EE (MILIT	RY TIME ONE	Y J
			19		7	ARRIVAL TIME	nep	ARTURE TIME	
COMMENTS OR DELAYS AT CONSIGNEE		N.6. M.F.	ngen den 18			EQUIPMENT USED		4.	n a real desired
			ta ta e						AND SER
PLEASE PRINT NAME/TITLE	co	NSIGNEE SIGNAT	URE				DATE UNLO	ADED	
	X	The State of the S	¥*:				21	با الحك	
			The same of the sa	and a factor of the factor	سانده در پارددوا		∴ MO.	DAY	YR.
AB H-0257. MD HWH-167 CT CT-HW-307. 2001-OPV-2335		MO H-1490 ND WH-429		H UPW-				40705 11602	
DE DE-HW-203 ME ME-HWT-47 DE-SW-203 ME-WOT-47		NH TNH-0047	ii 0	NTARIO,	CANAD	A A 840943		UPW-019071	13-OH
IL UPW-0190713-OH MI UPW-0190713-OH		NJ S-2265 15939	Q		CANADA	QC-6ML-047			
MA: MA-294 MN UPW-0190713-OF	H .	NY NJ-113	R	PI-535	in Ari			<u></u>	

Modern Landfill

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5588



Ticket:

087954

Date:

08/20/10

Time In:

10:30 am

11:00 am Time Out:

Vehicle:

Customer:

Scalehouse Copy 218626 ROLL OFF DEP#:

WH# 0754 FCI

Container/Trailer/DEP#:

000826

SEACOAST ENVIRONMENTAL SERVICES INC

716 NEWMAN SPRINGS ROAD, PMB 292

00 Gross Weight

35,200.00 lb

Tare Weight

Rate

28,460.00 lb

Net Weight

6,740.00 lb

LINCROFT, NJ 07738

Net Tons

3.37 TN

Reference:

Origin:

Contract/Profile: 3819109167

Yards

40.00 YD

Manifest: 09-099202/283608

Materials & Services

Generator: USEPA REG II

Quantity

Unit

Disposal

_ NEW YORK STATE (NY)__

VV_[11]

SW-DRILLING MUD/SOILS

3.37

TN

Check # Net Amount: Tendered: Change:

. Driver

Weighmaster_

TERRY SHERBINE 062688

SERVICES, INC.

ADIA-I IMPUINDOO OL POINT AAVO I E & MODEO I OO MINIGILEO I

Modern Landfill 4400 Mt. Pisgah Rd. York, PA 17406

renovation operation or both

If waste is asbestos waste, complete Sections I, II, III and IV If waste is NOT asbestos waste, complete Sections I, II and III

09-09202

717-246-2686 GENERATOR (Generator completes la-r) c. Page 1 of b. Manifest Document Number a. Generator's US EPA ID Number 09202 4/6 e. Generator's Mailing Address: d. Generator's Name and Location: U.S. EPA RECION IT/ROCSEVELT FIELD SITE 290 BROADWAY, 22nd FLOOR 251 CLINTON RD, GARDEN CITY, NY NEW YORK, NY 10007-1866 631-553-5705 Phone: 212-537-4106 If owner of the generating facility differs from the generator, provide: i, Owner's Phone No. h. Owner's Name: m. Containers n. Total o. Unit I. Waste Shipping Name and k. Exp. Date j. Waste Profile# Quantity Wt/Vol Description Type No. SOII. NOT HAZARDOUS مر وک 6/11 109167 XX1 HON REGULATED GENERATOR'S CERTIFICATION: Thereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described; classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261 p. Generator Authorized Agent Name (Print) g. Signature TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e) 11 a. Transporter's Name and Address: FREEHOLD CARTAGE, INC. 825 ROUTE 33, FREEHOLD, NJ 732-462-1001 d. Signature c. Driver Name (Print) **DESTINATION** (Generator complete IIIa-c and Destination Site completes IIId-g) Ш Disposal Facility and Site Address: MODERN LANDFILL c. US EPA Number d. Discrepancy Indication Space: 4400 NT PISGAH RD, YORK, PA 17402 b. Phone: 1 1 241 ~ 41055 I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate e. Name of Authorized Agent (Print) f. Signature g. Date ASBESTOS (Generator completes IVa-f and Operator complete IVg-i) c. Responsible Agency Name and Address: a. Operator's Name and Address: d. Phone: b. Phone: e. Special Handling Instructions and Additional Information: f. Friable Non-Friable Both % Friable % Non-Friable OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. h. Signature i. Date g. Operator's Name and Title (Print) Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or



FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010 (732) 462-1001 • FAX (732) 308-0924

BILL OF LADING FCI EPA ID NO. NJD054126164

350 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005

175 Bartow Mun. Airport Bartow, FL 33830 Phone: (863) 533-4599

5533 Dunham Road Maple Heights, OH 44137 Phone: (330) 835-3473

108 Monahan Avenue Dunmore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367

132 Myrtle Beach Hwy. Sumter, SC 29153. Phone: (803) 773-2611 Fax: (803) 773-2942

	Fax: (302) 038-6229 Fax.	(003) 033-1	.01.5		Tax (330) 833	1-01-52	<u> </u>	, 0.11 (0.5	0,022,034	-	<u> 1 a anti-a anti-a anti-a anti-a anti-a anti-a anti-a anti-a anti-a anti-a anti-a anti-a anti-a anti-a anti-a</u>	
SHIPPE	R NAME/ADDRESS			PHONE	7.0	7 (-	725				1 1 1	1
	NETT ((AREA								99° (367) 144.
		Ĭ		TRACT	OR .	TRAILER	-54.		APPOINTMENT TI	41C • 1/2 (m ²) = 1	والمستركب	
2043-044 1642-043		PROCE	DUDE.		EQUIP SPOTT	en legui	P. REMO	VEN	TIME AT SHIPPE	a (MILIT	ARY TIME ONL	Ϋ́
FCI RE	P. LOADING (PRINT)	PHOCE	DUNE		LOOK, OLOT				<i>€/7</i> : °		۔ حو ہ ک	Destair Bassie
	5 4-14911 <u>15</u>	. Jack	Carrier State	فتحمير أثوانسوب			120	X	ARRIVAL TIM	E DEF	ARTURE TIME	
COMMI	ENTS OR DELAYS AT SHIPPER			٠.					EQUIPMENT USED)		a Milaba a sa Saga
	69-CF005	acomina Social Daniel	i.	en and an engineering	The same of the sa			14 oct 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ritrarios st. 1882	n-stuspeoper (bio)	
BROK	ŒR:	-	~	/;-,i				~~.	MENITALO			
PO#:	W	O#: \	*\\S	>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	, in	IANIFES	ועיוו		MENT NO.			
(X) MM	PROPER U.S. D.O.T. SHIPPING NAMI	=	U.S. D HAZARDOL		NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT TYPE		UNIT MEASURE	WASTE NO.	FORM
1		- J	47									
2					-			Malata Malata				
3												
SPECIA	L HANDLING INSTRUCTIONS INCLUDI	VG CON	TAINER E	XEMPTIC	ON NUMBER.						- Takiya Takiya u	
SHIPPE	R'S CERTIFICATION: This is to certify t	hat the a	hove pan	ed male	rials are properly	classified de	scribed o	ackage	d marked and label	ed and are in	proper condit	ion for
transpoi	rtation according to the applicable regulat The consignee can and will accept the sh	ions of th	е Дерапп	nent of Tr	ansportation U.S.	FPA and the	State. The	e materi	als described above	were consigne	d to the Trans	sporter
Paymer	it to the contractor for waste removal does i				. *		magas Light of the					ered to
the cont	ractor. PRINT NAME/TITLE			SHI	PPER'S SIGNATI	JRE				DATE LOAD	ED	
				X.			v.J.F		41.67 F	27/	12/	45
					I HAVE READ THE AB	OVE AND UNDERS	TAND AND A	GREE TO	ALL OF ITS CONTENT.	мо.	DAY	YR.
CONSIG	ENEE NAME/ADDRESS	-	· jr	PHONE		······································				1 [I de 1	
			سنجث	(AREA	CODE):	*						
- 44	TOWN FULL			TRACT	ЭН 💮	TRAILER	telepeldi arterek J	oby Agailea	APPOINTMENT TIN	ΛĖ.		
	LULK THE TE	2			7	34	<i>3</i>	arment to the sale	, 1, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	0.4 3 (1.56)		
FCI REF	? UNLOADING (PRINT)	PROCE	DURE	<u>- </u>	EQUIP, SPOTTI	ED EQUI	P. REMO	VED	TIME AT CONSIG		ABY TIME ONL	0
	And Tork HAUSE			ŧ					ARRIVAL TIME	رکے DEP	ARTURE TIME	
СОММЕ	NTS OR DELAYS AT CONSIGNEE				Antile Control of the		200		EQUIPMENT USED			
											era datah 1961 terb	
PLEASE	PRINT NAME/TITLE			CON	ISIGNEE SIGNAT	URE				DATE UNLO	ADED	
				X					-	<u> </u>	<u> </u>	
		3.4.4.2				· · · · · · · · · · · · · · · · · · ·				MO.		YR.
AR H-		H-167 1-OPV-2	335		MO H-1490 ND WH-429		H UPW-0 K UPW-0				40705 11602	
DE DE	E-HW-203 ME ME	HWT-47 WOT-47			NH TNH-0047	0	NTARIO.	CANAD	A A 840943		11602 UPW-019071	3-OH
		N-01907			NJ S-2265 15939		A PA-AH UEBEC C		QC-6ML-047			
MA M	that there there is a second of the contract o	N-01907	13-OH		NY NJ-113		RI-535				***]

SERVICES, INC.

UNTINEARDOUG SEECIAL WAS IE & ASDESTUS MANIFEST

Modern Landfill 4400 Mt. Pisgah Rd. York, PA 17406 717-246-2686

If waste is asbestos waste, complete Sections I, II, III and IV If waste is NOT asbestos waste, complete Sections I, II and III

09-09203

717-246-2686 GENERATOR (Generator completes la-r) b. Manifest Document Number a. Generator's US EPA ID Number e. Generator's Mailing Address: d. Generator's Name and Location: 290 ERCADRAY, 22nd FLOOR NEW YORK, KY 10007-1866 u.s. epa region il/Roosevelt field site 251 CLINION RD, GARDEN CITY, NY a. Phone: 212-637-4105 f. Phone: 531-553-5785 If owner of the generating facility differs from the generator, provide: Owner's Phone No.: h. Owner's Name: I. Waste Shipping Name and m. Containers n. Total o. Unit j. Waste Profile # k. Exp. Date Wt/Vol Description Туре Quantity No SOTL NON HAZARDOUS XXI 6/11109167 ጥ HON REGULATED TT DT GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261. p. Generator Authorized Agent Name (Print) TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e a. Transporter's Name and Address: PREMOLD CARTAGE, INC. 825 ROVIE 33, freebold, NJ d. Signature DESTINATION (Generator complete Illa-c and Destination Site completes Illd-q) Ш. c. US EPA Number | d. Discrepancy Indication Space: a. Disposal Facility and Site Address: MODERN LANDFILL 4400 MT PISGAN RD, YORK, PA 17402 b. Phone: 717-246-46-55 I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate e. Name of Authorized Agent (Print) f. Signature a. Date ASBESTOS (Generator completes IVa-f and Operator complete IVq-i) c. Responsible Agency Name and Address. a. Operator's Name and Address: d. Phone: b. Phone: e. Special Handling Instructions and Additional Information: % Friable f. 🔲 Friable 🔲 Non-Friable 🛄 Both % Non-Friable OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

h. Signature

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or

g. Operator's Name and Title (Print)

renovation operation or both

Modern Landiiii

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5588



Ticket

087896

Date:

08/20/10 7:54 am

Time In: Time Out:

9:01 am

Scalehouse	: Copy
------------	--------

Vehicle:

Customer:

12178

ROLL OFF

DEP#: VIN#

WH#1536

Container/Trailer/DEP#:

000826

SEACOAST ENVIRONMENTAL SERVICES INC

716 NEWMAN SPRINGS ROAD, PMB 292

00 Gross Weight

59,740.00 lb

Tare Weight

33,780.00 lb

Net Weight

25,960.00 lb

LINCROFT, NJ 07738

Net Tons

12.98 TN

Reference:

Origin:

Contract/Profile: 3819109167

Yards

20.00 YD

Generator: USEPA REG II

Manifest: 09-09203/304232

Materials & Services

Quantity

Unit Rate

Disposal

NEW YORK STATE (NY)

W [11]·

SW-DRILLING MUD/SOILS

12.98

TN

Check # Net Amount: Tendered:

Change:

Driver_

Weighmaster

TERRY SHERBINE 062688

Modern Landfill

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5588



Ticket

087896

Date:

08/20/10

Time In: Time Out: 7:54 am 9:01 am

Vehicle:

Reference:

Origin:

Customer Copy

ROLL OFF 12178

DEP#:

716 NEWMAN SPRINGS ROAD, PMB 292

WH#1536

Container/Trailer/DEP#:

Tare Weight

59,740.00 lb

Customer:

000826

SEACOAST ENVIRONMENTAL SERVICES INC

00 Gross Weight

_33,780.00 lb

Net Weight

25,960.00 lb

LINCROFT, NJ 07738

Contract/Profile: 3819109167

Net Tons

12.98 TN

Manifest 09-09203/304232

Generator: USEPA REG II Unit

Yards

20.00 YD

Materials & Services

Quantity

Rate

Disposal

NEW YORK STATE (NY)

VV [11]

SW-DRILLING MUD/SOILS

12,98

TN

Check #

Net Amount:

Tendered:

Change:

Driver_

Weighmaster

TERRY SHERBINE 062688



FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728;5010 (732) 462-1001 • FAX (732) 308-0924 BILL OF LADING FCI EPA ID NO. NJD054126164

S

350 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005 Fay: (302) 658-6229 175 Bartow Mun. Airport Bartow, FL 33830 Phone: (863) 533-4599 5533 Dunham Road Maple Heights, OH 44137 Phone: (330) 835-3473 Fay: (330) 835-3772 108 Monahan Avenue Dunmore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367 132 Myrtle Beach Hwy. Sumter, SC 29153 Phone: (803) 773-2611 Fax: (803) 773-2942

		Fax: (302) 658-6229	Fax: (603) 533-1	013		Fax: (330) 033	-3/34		+ MA. (0)	0/ 042-1			7	<u> </u>
SHI	PPE	ER NAME/ADDRESS			PHONE						1 1 1			
Ź	ائد داد				(AREA	CODE)								200
T.	7. 1	Coproced Fall			TRACT	OR	TRAILER			APPC	DINTMENT TIM	AE 2		
7.00 10 10 10 10 10 10 10 10 10 10 10 10 1	£.			garderyagiri, etc 1995 - Davier						7.2				
FCI	RE	P. LOADING (PRINT)	PROCE	DURE		EQUIP, SPOTTI	ĒD EQUII ~	P. REMO	VED	TIME	E AT SHIPPER	₹ -{M}LI	ARY TIME ON	ILY)
			z [5/			7.7.70		1 <u>0000</u> 450 1844 18			ARRIVAL TIME	E DE	PARTURE TIM	E
СО	ММІ	ENTS OR DELAYS AT SHIPPER								EQUI	PMENT USED)		
					: .					1	6230			
₽□) OI	KER:		25 Karakari G-25 X G				3 8 W						
PC		XUII.	WO#:	35	d Contraction	s N	IANIFES	iT/D/	ocu	MEI	NT NO.			
(X)		PROPER U.S. D.O.T. SHIPPING			D.O.T.	NA/IJN/NO.	PACKING	NO.	CONT		NET	UNIT	WASTE	FORM
HM				HAZAHUU	US CLASS		GROUP	CONT	TYPE		QUANTITY	MEASURE	NO.	
	1	itee Hay stre	- TAX	M.	A-64	i Kijai	Mar	34.						
	2													
				1	<u> </u>		 							
	3					e de la composition de la composition de la composition de la composition de la composition de la composition La composition de la composition de la composition de la composition de la composition de la composition de la	1		1				Table Yales	
SP	ECIA	AL HANDLING INSTRUCTIONS INC	LUDING CONT	FAINER E	XEMPTIC	ON NUMBER.	Walter Freezi		17 (5 WH)					
Pay the	mer cont	The consignee can and will accept to the contractor for waste removal tractor. E PRINT NAME/TITLE	n jagaran 18 menganan 1888. Peranggan	RAN AMERICAN	SHII	carrier and if the co	ontractor does r	not pay th	e carrier	r, the sh	tipper is obliga	ted to pay the a	agreed rate of	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
King T.			delegion d'especial Terres d'adition	marakasi . Janan		I HAVE READ THE ABO	OVE AND UNDERST	rand and a	GREE TO	ALL OF IT	'S CONTENT.	MO.	DAY	YR
•		GNEE NAME/ADDRESS			PHONE									
			23-0	, and an experience	(AREA		TOAN CO							
				nerios info	TRACTO		TRAILER ラグン	ears, tel		APPO	INTMENT TIM	l⊏ •		
FCI		P. UNLOADING (PRINT)	PROCE	DURE		EQUIP. SPOTTE	D EQUIF	P. REMO	/ED	TIME	AT CONSIGN	YEE (MILIT	ARY TIME ON	LY)
			、 / / / /		7	5					<u>/ : 3</u>	<u> </u>		<u> </u>
CO	-	ENTS OR DELAYS AT CONSIGNEE		<u>Silaty.</u> San agai	<u>. 1945 (1971).</u> 2444 (1971)			ili variori.	36636.V 31 (34)	A	ARRIVAL TIME PMENT USED	Control of the second of the second	ARTURE TIME	
PLE	ASE	E PRINT NAME/TITLE			CON	ISIGNEE SIGNAT	URE					DATE UNLO	ADED	
					X							I		
			31.400								18 A.P. 18 B	MO.	.DAY	YR.
CT DE	CT DE DE UF	T-HW-307 E-HW-203 ME E-SW-203 PW-0190713-OH MI	HWH-167 2001-OPV-2: ME-HWT-47 ME-WOT-47 UPW-019071	13-OH		MO H-1490 ND WH-429 NH TNH-0047 NJ S-2265 15939 NY NJ-113	Ok ON PA QL	H UPW-0 K UPW-0 NTARIO, (N PA-AH JEBEC, C RI-535	0190713 CANAD/ -0067 CANADA	HOH A A 8		Wi	40705 11602 UPW-01907	13-OH

White - FCI Original Yellow - FCI Billing Blue - FCI Office/Customer Green - Retained by TSDF Gold - Retained by Generator

MANACEE FORMIER

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5588



Ticket:

089544

Date:

08/27/10 6:36 am

Time In: Time Out:

7:37 am

Scalehouse Copy

Vehicle:

Customer:

12178

ROLL OFF

DEP#: VIN#

WH#1536

Container/Trailer/DEP#:

000826

SEACOAST ENVIRONMENTAL SERVICES INC

716 NEWMAN SPRINGS ROAD, PMB 292

00 Gross Weight

Rate

68,980.00 lb

Tare Weight

34,200.00 lb

Net Weight

34,780.00 lb

LINCROFT, NJ 07738

Net Tons

17.39 TN

Reference: TR 341

Contract/Profile: 3819109167

Quantity

Yards

40.00 YD

Manifest: 09-09205/258866

Generator: USEPA REG II

Unit

Disposal

Origin: NEW YORK STATE (NY) Materials & Services VV [11]

SW-DRILLING MUD/SOILS

17.39

TN

Check #

Net Amount:

Tendered: Change:

Driver

Weighmaster

TERRY SHERBINE 062688

Modern Landfill

4400 Mt. Pisgah Rd. York, PA 17406 (717) 246-2686 Fax (717) 244-5588



Ticket

089544

Date:

08/27/10

Time In: Time Out: 6:36 am 7:37 am

Customer Copy

Vehicle:

ROLL OFF

DEP#:

VIN#

WH#1536

Container/Trailer/DEP#:

12178

000826

Contract/Profile: 3819109167

00 Gross Weight Tare Weight

68,980.00 lb

Customer:

Origin:

SEACOAST ENVIRONMENTAL SERVICES INC 716 NEWMAN SPRINGS ROAD_PMB 292

Net Weight --

34,200.00 lb

34,780.00 lb

LINCROFT, NJ 07738

17.39 TN 40.00 YD

Reference: TR 341

Generator: USEPA REG II

Rate

Manifest: 09-09205/258866

Materials & Services

Quantity

Unit

Disposal

Net Tons

Yards

NEW YORK STATE (NY)

W [11]

SW-DRILLING MUD/SOILS

17.39

TN

Check# Net Amount:

Tendered: Change:

Driver

Weighmaster

TERRY SHERBINE 062688

SERVICES, INC.

Modern Landfill 4400 Mt. Pisgah Rd. York, PA 17406 - 10 - 14 717-246-2686

If waste is asbestos waste, complete Sections I, II, III and IV If waste is <u>NOT</u> asbestos waste, complete Sections I, II and III

a. Generator's US EPA ID Number	Generator's US EPA ID Number ু ্রি			nent Number		c. Page	c. Page 1 of			
d. Generator's Name and Location: U.S. SPA RECTION IT/OLD BY 251 CLIFTON RD. GARDER IT f Phone: 631-553-5785	Hije II			e, Generator's Mailing A 290 BROADWAY, FIET YORK, FT g. Phone: 212-537	, 22±0 F 10007-	ICOR 1855				
If owner of the generating facility differs for	om the gen	erator, provi	ride:							
h. Owner's Name: i, Waste Profile #	k. Exp. Da	late	I Waste Ship	i. Owner's Phone No.: pping Name and	l m.Cc	ontainers	n. Total	l o. Unit		
] Waster police		<u> </u>	Description		No.	Туре	Quantity	Wt/Vol		
s1992.677	6/11		TOT HASA		7.72	CFST.	21 21			
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the requirements.	lassified and siv restricted	nd packaged, d hazardous	d, and is in prope is waste subject i 88 and is no long	er condition for transportat to the Land Disposal Rest per a hazardous waste as o	tion accordin strictions. I co defined by 4	ng to applications and water	able regulations	ns: AND, if this		
frat Bana		Ų Ž		forthe U.S. inc	£ Are	37	7/0			
p. Generator Authorized Agent Name (Printle II. TRANSPORTER (Gene	nt)		_{gnature} la-b and Tran		n_e)	r. Date :				
a Transporter's Name and Address: FREEHOLD CARTAGE, IFG. 825 ROUTE 33, PREEHOLD. b. Phone: 732-462-1001						2				
(Tale) Paulinium		Wz	2		81	9/12				
c: Driver Name (Print) III. DESTINATION (Generat		d. Signature lete IIIa-c	Commence of the contract of the contract of	was Site completes !	e. Date					
a. Disposal Facility and Site Address: MODERN LANDFILL 4400 MT PISCAR RD, YORK, b. Phone: 717-246-4535 I herby certify that the above named mater	PA 174	i02	C. US EPA Numi På	iber d. Discrepancy Indi	lication Space					
e. Name of Authorized Agent (Print)		f. Signature		N V	g. Date	S I	rate.){ / /6	5		
IV. ASBESTOS (Generator	complete	∍s IVa-far	and the state of t	ngering specifical production between the second of the contraction of the second of the second of the second						
a. Operator's Name and Address:				c. Responsible Agency Na	ame and Add	lress:				
b. Phone: e. Special Handling Instructions and Additi	ional Inform	nation:		d. Phone:						
f. Friable & Non-Friable Both		% Friable		% Non-Friable						
OPERATOR'S CERTIFICATION: I hereby and are classified, packed, marked and lab national governmental regulations.	declare that beled and a	it the conter ire in all resp	nts of this consig pects in proper	gnment are fully and accu condition for transport by I	rately descri highway acc	bed above ording to a	by proper shipp oplicable intern	ping name lational and		
g. Operator's Name and Title (Print) *Operator refers to the company which own tenovation operation or both		h. Signature operates, co		rvises the facility being de	i. Date emolished or	renovated,	or the demoliti	ion or		

NON-HAZARDOUS WASTE MANIFEST

Plea	se print or type (Form designed for use on elite (12 pitch) typewriter)					<i>ن</i>	•		
	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.				Mankest Document No	° 13021	2	Page 1 of	
	3. Generator's Name and Mailing Address U.S. EPA REGION II/ROC		10000-1066					-		
	290 BROADWAY, 20th FL 4. Generator's Phone (212) 637-427		1000∆−1000							
	5. Transporter 1 Company Name FREEHOLD CARTAGE INC.	6. 1 语	US EPA ID NU JD 054 126					1- i +62-1		
	7. Transporter 2 Company Name	8.	US EPA ID Nur			B. Transporte C. State Trans			004	
	0.00	10.	Ho spa in M.			D. Transporte			* -	
	9. Designated Facility Name and Site Address ENVIRONMENTAL RECOVERY 1076 OLD MANHEIM PIKE	CORP	US EPA ID Nu	i.		E. State Facili	ty's ID			
	10/0 Ond Maniath I Ins.	, LANCASIER, FA	17001	1V f &1		F. Facility's Pt 717-3	one 93-2627	٠		
	11. WASTE DESCRIPTION				12, Co No.	ntainers Type	13. Total Quantity		14. Unit Wt./V	t /ol.
	NON HAZARDOUS NON RE (PURGE WATER)	GULATED		÷	1	TT	2.88	13	G	<u>.</u>
GEZE	b.									
RATO	C.									
R/	d.									
	G. Additional Descriptions for Materials Listed Above	· / /		· ·		H. Handling C	odes for Wastes Liste	d Above		
7	SITE ADDRESS: STEWART GARDEN	AVE AND CLINTO	ON RD							
								,		
	15. Special Handling Instructions and Additional Info	mation								
			is Section of the contract of	· ·	•	•				
	16, GENERATOR'S CERTIFICATION: I hereby cert	ify that the contents of this shipme	ent are fully and accura	tely described a	and are in	all respects	7/7/			
	in proper condition for transport. The materials d	· .	ubject to federal haza	dous waste reg	ulations.		· · · · · · · · · · · · · · · · · · ·	:		
	ON BEHALF IN IK EVA &	EGION AL	Signature	(1) Th	- J. J.		·	Month	Date Day	Year
F	1711KE EHWD1 17. Transporter 1 Acknowledgement of Receipt of M	aterials	MAS	V W	1			<u>ا کن</u>	Date	Year /3
RAN	Printed/Typed Name	-	Signature					Month		Year
S P	18. Transporter 2 Acknowledgement of Regelpt of M	aterials	<u> </u>	<u> </u>	<u> </u>	<u></u>			Date	· .
TRANSPORTER	Printed/Typed Name		Signature	<u> </u>)		Month		Year
F	19. Discrepancy Indication Space									
AC									٠	
L	20. Facility Owner or Operator, Certification of receip	t of the waste materials covered b	y this manifest, excep	as noted in iter	n 19.	7		T:	`rs	
T.	Printed/Typed Name		Signature	1.1	//.	, i -		Month	Date	Year
Υ	I MALLERALICATION		1 DUCK	dal	U.C.	20ch	•	<u>3</u> 1	15	13



ENVIRONMENTAL RECOVERY CORPORATION NON-HAZARDOUS WASTE MANIFEST

			<u></u>		
Generators Name and Site Address USEPA Region II - Roosevelt			Manifest No.	100920	
Clinton Road			Generator Con	efi Lippay	
Garden City, NY 11530					
			Generator Pho	ne (32) 600-0993	
Transporter Company Name	US EPA ID Number		Transporter Co		
Environmental Recovery Corp.	PAD987266749			Scott Reisinger	
Transporter Company Address			Transporter Ph		*.
1076 Old Manheim Pike, Lancaster, P.		*.		717) 393-2627	
Designated Facility Name and Site Address Environmental Recovery Corporation	US EPA ID Number		State Facility's	301344	
1076 Old Manheim Pike Lancaster, PA 17601	PAD987266749		Facility's Phone	(717) 393-20	 527
WASTE DESCRIPTION		Containe	rs .		Γ
a.	and the second s	No,	Туре	Total Quantity	UOM
				175	
Non-Haz Groundwater Sediment/Sludge		XX	TT	1. NU	
N b.					
E				-	
A C. 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	· · · · · · · · · · · · · · · · · · ·				
R d					
Other Comments	. · ·	است.			
Work Order # RAG-3264		,	er er	to a second seco	
TYPES OF CONTAINERS		l	UNITS OF MEAS	SURE (UOM)	
	letal drums, barrels, kegs, pails ump truck		G = Gallons (lic	juids only)	
	Vooden drums, barrels, kegs argo tanks (tank trucks)		T = Tons (2000 Y = Cubic Yard		
	qua bins / totes				
I hereby certify that the above described materials are non-hazardous wastes a					erly
classified, described, packaged, marked and labeled, and are in proper condition	on for transportation according to the applica	ble regulati	ions of the Depa	rtment of Transportation.	···
On behalf of EPA Krain 2. Printed/Typed Name	Signature			Month	Date Day Year
X Toso al Cattor	XTZ /	and the same	4	3 i	1713
Transporter Acknowledgement of Receipt of Materials	777	, ,,,,			Date
Printed / Typed Name	Signature			Month	Day Year
1 THOWN LONG	1 / / / /	1.1 - .8.	<u> Za ce</u>	<u> </u>	<u> </u>
Discrepancy Indication Space		" (Later)	والمعراء المعمر المعمراء	factor in any first the first time of	
A C Facility Owner or Operator, Certification of receipt of the waste materials cover	ed by this manifest, except as noted above				
A C	ed by this manifest, except as noted above				Date
A C Facility Owner or Operator, Certification of receipt of the waste materials covered.	ed by this manifest, except as noted above	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	Month	Date Day Year

NON-HAZARDOUS WASTE MANIFEST

i	Please print or type : (Form designed for use on exte (12)	pitch) typewater)				yb."	
		1. Geлerator's US EPA	ID No. N/A	÷	Manifest Document No.	13022	2 Page 1 of 1
	3. Generator's Name and Mailing Address U.S. EPA REGION II/ROOS 290 BROADWAY, 20th FL, 4. Generator's Phone (212) 637-427	NEW YORK, I	NY 10007-1866		1		
	5. Transporter 1 Company Name FREEHOLD CARTAGE, INC.		5. US EPA ID Number NJD 054 126 164		A. State Trans	porter's ID NT- 1 1 Phone 732-462	3 -10001
	7. Transporter 2 Company Name		5. US EPA ID Number		C. State Trans	porter's ID	
	•9. Designated Facility Name and Site Address ENVIRONMENTAL RECOVERY	COPD	16. US EPA JD Number		E. State Facili		
	1076 OLD MANHEIM FIKE# LANCASTER, PA 17601	CORF	N/A		F. Facility's Pt 717-39		
	71. WASTE DESCRIPTION			12. Con No.	tainers Type	13. Total Quantity	14. Unit Wt./Vol.
	NON HAZARDOUS NON REGU (PURGE WATER)	LATED		1	TT	2228	G
- [G b. E						
	E C. A. T	· · · · · · · · · · · · · · · · · · ·					
	O d	. ي	· ·				
S							
N-HAZARDOUS WASTE	G. Additional Descriptions for Materials Listed Above SITE ADDRESS: STE	WART AVE A DEN CITY,			n. Handing O	odes for Wastes Listed Abo	we
Z	2 W 41 15. Special Handling Instructions and Additional Inform	one_					<u> </u>
NON-HA	18. GENERATOR'S CERTIFICATION: I hereby carry in proper condition for transport. The materials desc		shipment are fully and accurately describe re not subject to rederal hazardous waste n	d and are in all regulations.	It respects		
	Printed/Typed Name N. F. H. J. S.T.	-1310W EL	Egrature /	10		Mo <u>r</u>	Date Day Year
	T 17. Transparter 1 Acknowledgement of Receipt of Mate	rials	Julio ()	~/_	·		Date .
	Printed Typed Name Sony white	*.	Signature Ch	70		Men 3	
1	18. Transporter 2 Acknowledgement of Receipt of Mate Printed/Typed Name E	Hais	Signature			Мол	Daie oth Day Year
	F A C						
1	20. Facility Owner or Operation Certification of receipt of	the waste male and	vered by this manifest, except as the except	tem 19.			Date
	T Printed Type Name //	Ixov	Sozzáre	<u></u>	•	, Mon	門門

110 Sand Company

170 Cabot Street West Babylon, New York 11704 TRUCKER COPY

TELEPHONES

Office - 631-249-4108 Scalehouse - 631-694-2822 Landfill - 631-694-2848

CUSTOMER NO.	P.O. NUMBER	TRUCK NO.	TYPE OF S		IOB NO.		ORDER NUM	ABER	TICKET NO.
الرابا والمراجع								e skr	Section 1
CUSTOMER NAME	SALE - CHECK			GROSS	TAR	E]	NET	Line	I,T WEIGHED BY
Treation and	Philippeda Cos ilongeria			E1".		` '		1 47146	J (217)
			, i	<u> </u>				<u> </u>	<u>.</u>
	TAX TRUCK PERCENTAGE CODE	MATERIAL CODE	<u>.</u>	IN	, out	and.	CHECK NOTCH	ARGE TYPE	LICENSE NO.
, देश है पर के किय	A .	.F 5.7 %.1		:	1 5 5 1 - 1	\$ \J	:- · · · · · · · · · · · · · · · · ·	(1) (I)	100 165
	RIGIODIC EL	,]	J		The state of the s	PH			1
MATERIAL DESC						, 5.5			
					15	7			

NON-HAZARDOUS WASTE MANIFEST

Ple	ase print or type (Form designed for use on elite	12 pitch) typewriter)	•				
	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID	N/A	. 4	Manifest Document No.	13009	2. Page 1 of 1
	9. Generator's Name and Mailing Address U.S. EPA REGION II/ROC 290 BROADWAY, NEW YORK 4. Generator's Phone (212) 637-472	. NY 10007			· ·		
1	5-Transporter 1 Company Name	6.		- 14 - 14 -		porter's ID NJ-1 3	
	FREEHOLD CARTAGE, INC.		NJD 054 126 164			1 Phon 32-46 2	2-1001
14	7: Transporter 2 Company Name	8.	US EPA ID Number		C. State Trans		
	Designated Facility Name and Site Address		LIG COA ID November		D. Transporter		
	110 SAND CO.). US EPA ID Number	-	E. State Facilit 1-4726	ys ID - 00490-00 00)3-0
	136 SPAGNOLI RD MELVILLE, NY 11747	·	n/a		F. Facility's Pt 631-58	one 36-5900	
	11. WÁSTÉ DESCRIPŢION			12. Cor No.	ntainers Type	13. Total Quantity	14. Unit Wt:/Vol.
	a non Hazardous, non (SOIL)	REGULATED		1 ,	em	EST 22	T
GEZE	b ,						
R A T O	c. c.						
R							
	stewari Garden	LT FIELD MALI AVE AND CLIN CITY, NY ONTAINER #	fion ave				
	15. Special Handling Instructions and Additional Inf	ormation	San State Committee Commit				· · · ·
W							
	15. GENERATOR'S CENTIFICATION: I hereby ce in proper condition for transport. The materials		hipment are fully and accurately described a not subject to federal hazardous waste rec	and are in a gulations.	all respects		
	ON BEHALF OF US BA	REGION ID		11.241		Section of the second	Date
	Printed Typed Name MUKE EHMOT	•	Signature	A	***		Month Day Year 3 8 13
I	17. Transporter 1 Acknowledgement of Receipt of N	Materials					Date 🌣
A	Printed/Typed Name		Signature		-		Month Day Year
S	BriAN TANCORE	τ <u></u> ,					3 8 13
P	18. Transporter 2 Acknowledgement of Receipt of h	Materials					Date
TRANSPORTER	Printed/Typed Name		Signature			-	Month Day Year
F A C	73740 (20)	1,2CeO		ĺ	1012	m 90	14673
	20. Facility Owner or Operator, Certification of rece	pt of the waste materials cover	ered by this manifest, except as noted in ite	m 19.		ser la la la la la la la la la la la la la	Date
TY	Printed/Typed Name		Signature	11			S BY TO

TELEPHONES

110 Sand Company Office - 631-249-4108

170 Cabot Street West Babylon, New York 11704 Scalehouse - 631-694-2822

Landfill - 631-694-2848

CUSTOMER NO.	PO NUMBER	TRUCK NO	TYPE OF S LAINDFIL		JOB NO.	FOUR ORDER NUMBER	TICKET NO.
	The second state from the second state of			拼合权力			
CUSTOMER NAM MATERIAL	BUTE - CHECK			GROS	Charles of California page 10 to America California and Programme.		UNIT WEIGHED B
	Service Control of th			Company (1971)	31 62 2 53362	e callerina.	
3/08/13	PERCENTAGE TRUCK	MATERIAL CODE		ESIN	LUIL	and the state of t	TYPE LICENSENG
	I describe the state of the sta		J / I				
IATERIAL DES	CRIPTION	re fame The same of the same engine	denne agent alleger og en en en en en en en	Jeungara			
	DELIVERYADDRE	ss				TOTAL TODAY	
OOSEVELT	시계 그 전쟁하게 4) 교신을 젖으면 하는 그			QUA	NTITY THIS O	DRDER TODAY	
				LOA	DS THIS ORD	하고 하시 그 전 하시 사용을 가지를 하는 것은 것은	
	BECEIVED BY:					OFFICE IISE ONLY	
BREER/ NATURE							
STOMER SNATURE							
SE	E REVERSE SIDE FOR	COLLECTION	TERMS _				

FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010 (732) 462-1001 • FAX (732) 308-0924

BILL OF LADING FCI EPA ID NO. NJD054126164

\$407005

350 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005 Fax: (302) 658-6229

175 Bartow Mun. Airport Bartow, FL 33830 Phone: (863) 533-4599 Fax: (863) 533-1613

5533 Dunham Road Maple Heights, OH 44137 Phone: (330) 835-3473 Fax: (336) 835-3732

.108 Monahan Avesue Dunmore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367

132 Myrtle Beach Hwy. Sumter, SC 29153 Phone: (803) 773-2611 Fax: (803) 773-2942

SHIPPER NAME/ADDRESS		PHON	E				!			
U.S. EPA R	Egion II/Roo	Sevelli IAREA	CODE ZI	2-63	7-4	725		20 / VA		
290 Brandway	•	TRAC	тоя 7 65	TRAILER	la		APPOINTMENT T	TME		
FCI REP. LOADING (PRINT)		EDURE	EQUIP. SPOT	TED EQU	IP. REMC	VED	TIME AT SHIPPE	ER (MILI	ITARY TIME ON	ILY)
BriAN PAN	tenos K	imarc	N/V	4 ;	9613	3	ARRIVAL TIM	VIE DE	3 - : 45 PARTURE TIM	
COMMENTS OR DELAYS A	T SHIPPER						EQUIPMENT USE	iD		
		0117	2127			l	i e			
BROKER:		171 au7	741	MANIFES	ST/D	ocu	MENT NO.			
PO#:	WO#:		4-5-		1	1		1200	1	
(X) PROPER U.S. C	D.O.T, SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/IJN/NO.	PACKING GROUP	NO. CONT.	CONT.		UNIT MEASURE	WASTE NO.	FORM
1 Soil		2/4	N/h	N/A	j	CM	三	ķ.	N/b	2
2										1
		- 			 			- 	†	+
SPECIAL HANDLING INSTRU					<u> </u>	<u> </u>			<u></u>	
SHIPPER'S CERTIFICATION transportation according to the named. The consignee can ar Payment to the contractor for withe contractor. PLEASE PRINT NAME/TITLE	e applicable regulations of t nd will accept the shipment raste removal does not cons	he Department of Ti and has a valid perr Litute payment to the	ransportation, U.: nit to do so if req	S. EPA and the uired, I certify the contractor does	State. The at the fore	e materia going is	ils described above true and correct to	were consignate the best of my	ed to the Tran knowledge. agreed rate of	ısporter
		^	I HAVE READ THE A	BOVE AND UNDERST	AND AND A	GREE TO A	LL OF ITS CONTENT	MO.	DAY	YR
CONSIGNEE NAME/ADDRES	ss C.	PHONE	CODE) 631-	- 586-5	968			1/41		
134 Spagoli	40	TRACTO		TRAILER	,,,,,	,	APPOINTMENT TIN	VE.		
FCI REP. UNLOADING (PRINT	NY 114	/ / /	EQUIP. SPOTT	FD FOUR	P. REMOV	/FD	TIME AT CONSIG	NEE (M) IT	ARY TIME ONLY	<u>, </u>
Brian Pon	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	rmo	91.13		613	ta e 🖹	14:15 ARRIVAL TIME	<u></u>	5:45	
COMMENTS OR DELAYS AT	CONSIGNEE		(74415	75	E	EQUIPMENT USED)		
PLEASE PRINT NAME/TITLE	KNIBOTE	Wr CON	SIGNEE SIGNA	M	1		<i>-</i>	DATE UNLOA	8 /1	<u>5</u>
AR H-0257 CT CT-HW-307 DE DE-HW-203 DE-SW-203 IL UPW-0190713-OH MA MA-294	MD HWH-167 2001-OPV-2 ME ME-HWT-47 ME-WOT-47 MI UPW-01907 MN UPW-01907	7 13-OH	MO H-1490 ND WH-429 NH TNH-0047 NJ S-2265 . 15939 NY NJ-113	OK ON PA QU	PA-AH-	190713-0 ANADA 0067		TX 4	40705 11602 JPW-0190713	

CC

FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5016 (732) 462-1001 • FAX (732) 308-0924 BILL OF LADING FCI EPA ID NO. NJD054126164

\$407005

350 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005 Fax: (302) 658-6229 175 Bartow Mun. Airport Bartow, FL 33830 Phone: (863) 533-4599 Fax: (863) 533-1613 5533 Dunham Road Maple Heights, OH 44137 Phone: (330) 835-3473 Fax: (330) 835-3732 108 Monahan Ave ine Dummore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367 132 Myrtle Beach Hwy. Sumter, SC 29153 Phone: (803)-773-2611 Fax: (803) 773-2942

SHIPPER NAME/ADDRESS		PHON	E			- 1		3 # 1	i ,	
U.S. EPA Regio	NII/Ross	Sevelli (AREA	CODE Z/	2-63	7-4	725		w/14		
290 Brondway		inaci		TRAILER 1	1.		APPOINTMENT T	IME		
Was York	JY 1000-		95	No.	, W				<u></u>	
FCI REP. LOADING (PRINT)	PROCE	EDURE	EQUIP. SPOT	TED EQU	IP. REMC	VED	TIME AT SHIPPE		TARY TIME ON	LY).
BriAN PANCOLA	et K	conarc.	N/K	3	ひべ	3	ARRIVALTIN		PARTURE TIM	
COMMENTS OR DELAYS AT SHIP	PER		,				QUIPMENT USE	D		
										:
BROKER:		947	2177							
PO#:	wo#:	9477	12	ANIFES	ST/D	OCUA	MENT NO.	170-		
,	WO#.		3-3-	O COURTO] "	Long		1300	T	T
PROPER U.S. D.O.T. S	HIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/IJN/NO.	PACKING GROUP	CONT.	TYPE	QUANTITY	UNIT MEASURE	WASTE NO.	FORM
1 Soil		1/4	N/h	NA	1	cm	Est. 22	+	N/b	5
									-	
				 	ļ			_		-
3]					
SPECIAL HANDLING INSTRUCTION	VS INCLUDING CON	TAINER EXEMPTIO	ON NUMBER.			-				
										Ì
SHIPPER'S CERTIFICATION: This	is to certify that the a	bove named mate	rials are properly	classified, des	cribed, p	ackaged,	marked and label	ed and are in	proper condi	tion for
transportation according to the applic named. The consignee can and will	cable regulations of the	e Department of Tr	ansportation, U.S	. EPA and the	State, The	e materials	s described above	were consioné	d to the Tran	sporter
Payment to the contractor for waste re										ered to
the contractor. PLEASE PRINT NAME/TITLE		Lenie	PPER'S SIGNATU	ion				DATE LOADS		1 20 0
PLEASE PRINT NAME/ III LE		\	TEN 3 SIGNATO	NE				3 /	2 /4	-
		X	I HAVE READ THE AB	OVE AND UNDERST	AND AND A	GREE TO AL	OF ITS CONTENT	(<u> </u>	DAY	YR
CONSIGNEE NAME/ADDRESS		PHONE						.1.		
110 Sand Co	_	(AREA C	CODE 431-	584-6	900		h	1/4	}	11
134 Spagoli +	Ì	TRACTO		TRAILER		A	PPOINTMENT TIN	Æ		937
Melville NY	1174	7	05	N/K	;					
FCI REP. UNLOADING (PRINT)	PROCE	OURE	EQUIP. SPOTTE	EQUIF	REMOV	/ED]	TIME AT CONSIGN		RY TIME ONLY	0
Roman Dans	وبالم المذير		9413	9	613		14:15	<u> </u>	5 : 465	
COMMENTS OR DELAYS AT CONS	<u></u>	mp	FUE	1.2.9			ARRIVAL TIME QUIPMENT USED		ATURETIME	\dashv
•			C	74415	11					
PLEASE PRINT NAME/TITLE		LCON	O'CNEE CONAT	J 1 U	<u> </u>			DATELIANOS	n-n	
	NIBOTE	AIN.	SIGNEE SIGNAT	12/-1	1/2		,	DATE UNLOA		3
	V/OV/6	ν x	_ 4	4-1				· 		而丨
AR H-0257	MD HWH-167		MO H-1490	ОН	UPW-0	190713-O	<u></u>	TX 4	0705	$\overline{}$
CT CT-HW-307	2001-OPV-23 ME ME-HWT-47	35	ND WH-429	OK	UPW-01	90713-O	Ĥ	Wi 11	1602	1
DE DE-HW-203 DE-SW-203	ME-WOT-47		NH TNH-0047 NJ S-2265	PA	PA-AH-	0067	A 840943	WV U	PW-0190713	-OH
IL UPW-0190713-OH MA MA-294	MI UPW-019071; MN UPW-019071;	3-OH	. 15939 NV N4.113		EBEC, C/ BL-535	ANADA (QC-6ML-047			-

110 Sand Company

170 Cabot Street West Babylon, New York 11704 G613

TELEPHONES

Office - 631-249-4108 Scalehouse - 631-694-2822

Landfill - 631-694-2848

-				• • • • • • • • • • • • • • • • • • •	In the second second second			
CUSTOMER NO.	P.O. NUMBER	TRUCK NO.	TYPE OF S	SALE	JOB NO.	OUR ORDER NUM	SER PROPERTY.	KET NO.
च । धार्यक्रा			F.EUSTIG XT	•2		PER ST ALPERA	~~~~	recover
الدائية الماد	A 774 76 77 17 17 17 17 17 17 17 17 17 17 17 17						ر ای	
CUSTOMER NAM	E. Control			GROS	TAR	I , NET	TUNUT	WEIGHED BY
THEFT EXTEL	SALE - CHECK	1999					1,0190	LINK
		Kaji katendaran		Constanting			l in the second of the second	
PATE	PERCENTAGE CODE	MAYERIAL - CODE)	IN	, out	CHECK NO JOHAN	GE TYPE L	ICENSE,NO.
च्या प्रकार देख		200		. 44 H	7:	6 ()	, <u>, , , , , , , , , , , , , , , , , , </u>	-
	HIGHNORE EN) "		Ħ	1.4		
MATERIAL DESC		<u>- </u>						
		•	• •		L	1		

& ERC NON-HAZARDOUS WASTE MANIFEST

D20796

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.		***************************************	Manifest Document No.		2. Page 1 of
3. Generator's Name and Mailing Address INSEPA REGION J JST CINTER RUY 11530 (Fortill City, NY 11530 4. Generator's Phono (JB) 637-48	73		****			
5, Transporter 1 Company Name	- 6. 	US EPA ID Number	-01	A. State Trans		40801
McVAC Environmental S	Cruces C	TR 00000,505	8	8. Transporter	1 Phone 803-49	8-1497
7, Transporter 2 Company Name	.8. 1	US EPA ID Number		C. State Trans		
Q Decignated English Name and Site Address	10.	US EPA ID Number		D. Transporter E. Slate Facilit		
9. Dosignated Facility Name and Sile Address ENVIRON MENTER RECEIVE COUPE 1076 Old Munhar Pike Lancaster At 17601	when p	10987 266 748	,	F. Facility's Ph		
	. 1 11	. , IVon-KCK	41 0	ontainers	13.	14.
Old Roosevelt Field direct	range allelling trun	d bask Non-DOT	No.	Туре	Total Quantity	Unit Wt./Vol.
Old Roosevelt Field direct	Pulling Min A		001	TT	\$075.	38/
b.						
c.						t .
d						
G, Additional Doscriptions for Materials Listed Above				H. Handling C	odes <i>fo</i> r Wastes Listed Ab	ove
15. Special Handling Instructions and Additional Info	mation	•				
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials of						Date
Printed / Typed Namo Muzuffar Rahmani	4	Signature XI . A	alm	rani	M	onth Day Year 7 9 15
17. Transporter 1 Acknowledgement of Receipt of M Printed / Typed Name FF COOT I CO Volve	0	Signatura			M	Date lonth Day Year
18. Transporter 2 Acknowledgement of Receipt of M		1				Date
Printed / Typed Name		Signature	· · · · · · · · · · · · · · · · · · ·		М	lonth Day Year
19. Discrepancy Indication Space 5. 38	Tons		2014			
20. Facility Owner or Operator, Certification of recel	of the waste materials covered	by this manifest, except as noted in	Item 19.		_	
Printed / Typed Nove / A	O //					Date Vage
Printed / Typed Name	South	Signature			M	onth Day Year

A	W
	,
ERC	•

WEIGHED ON A FAIRBANKS SCALE

Environmental Recovery Corp. 1076 Old Manheim Pike Lancaster, PA 17601 (717) 393-2627

Transporter: Generator: Generator Addres	SEPH SEPH	
Product Description	on:	
L	NBOUND 58600 Ib OOP ID 986	
Inbound Date:	7-14-15 Time:	2:367%
Outbound Date:	7-14-15 Time:	4:23PH
	78400 15 1 47840 15 1	JRNSS YANE YET
Driver On:	00P ID 986_ Off:_	
	5,3	Stons
SIGNATURES Transporter:		
Weigher: Weighmaster Lice	173 ense #: 773	50
No. 1588	ODICINIAL CODY	

NON-HAZARDOUS WASTE MANIFEST

ا	Jean.	e print or type (Form designed for use on elite (1	2 pitch) typewriter)									
		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA	ID No. N/A				Manifest Document No	° 13002	2.Page 1 of 1		
		3. Generator's Name and Mailing Address U.S. EPA RECTION II/ROOSEVELT 290 BROADWAY, NEW YORK, NY 10007										
		4. Generator's Phone (212) 637-427	5			w.,						
		5. Transporter 1 Company Name FREEHOLD CARTAGE, INC.		B. NYD	054 126 1			A. State Tran B. Transporte	aporters to NJ-11 r 1 Phone 32-462-	3 1001		
		7. Transporter 2 Company Name		8. [US EPA IO NUMBE	×		C. State Tran	aporter's ID 159	39		
		9. Designated Facility Name and Site Address 110 SAND CO. 136 SPAGNOLI RD.		10.	US EPA ID Numbe	er		E. State Fact 1-4726	-00490-00003			
		MILEILE, NY 11747		l	n/a			F. Facility's P	831-586-5900)		
		11. WASTE DESCRIPTION		***********			12. Co No.	п радинах Турн	13; Total Quentity	- 14. Unit WLA/ol,		
		NON HAZARDOUS, NON REX	GULATED"					restr	EST. 2-2	. т		
	G	b.					.1	CM	2-2-	- 1		
- 1	E N E						·					
- 1	RAT	C.			, -					į		
	Ö R	<u>d</u>										
WASTE				,]						
≩		G. Additional Descriptions for Materials Listed Above						H, Mendling Codes for Wastes Listed Above :				
NON-HAZARDOUS		3T	osevelt fie 'Ewart And C RDEN CIY, N	CLINTON AVE								
ZZ Z		15. Special Handling Instructions and Additional Infor	mation							-		
Ŧ										٠		
욋												
	J	16, GENERATOR'S CERTIFICATION: I hereby certific proper condition for transport. The materials de	ify that the contents of the	s ehipment an are not subject	e fully and accurately a to federal hazardo	y described a us wasta regu	nd are in lations.	all respects				
	4		+ REGION			\				Date		
		Printed Typed Name MILE EHA/OT	-	<u></u>	Ma	El	de			21/13/13		
Ī	TRA	17. Transporter 1 Acknowledgement of Receipt of Ma	atorials ,		gneture	777		<u> </u>	/ , .	Date		
	ZSP.	18. Transporter 2 Acknowledgement of Picceipt of Mil	// / ateriala		_//	9/ph	(3	nga t	ani c	Date Date		
	TRANSPORTER	Printed/Typed Name		ş	grature		,		6	tonth Day Your		
	F A	19. Discrepency Indication Space		<u></u>	井	939	70		(11.0	0/10		
	Ç.	op. Facility Owner or Operator: Certification of receipt	n of the waste materials o	covered by thi	s manifest, except &	s noted in iten	n 19.					
	1	19 - C	111-572	370) s	gneture	$\overline{}$	XX		<u>I_</u>	105 15 20 105 15		
- 1	Υ.	バス ゼヤニ 3937 ~ ()	100 - 34/J	ا ^{بي} ن ر		(, u					

170 Cabot Street West Babylon, New York 11704 TELEPHONES

Office - 631-249-4108

Scalehouse - 631-694-2822

Landfill - 631-694-2848

CUSTOMERNO E PO NO	MEETS ERVICE NOT	E PRE OF SA	ee Zale job not	COUR ORDER NUMBER	TICKET NO.
S10801	\$2 4 5	CANDFIL		012436	939712
CUSTOMER NAME	V		TGROSS Tay	IE SE SE NET	PANT TO METCHEORY
MATERIAL SALE -				7 12 59	TONS TEW
	TRUCK MATERIA	ì	W - 50	CHECK NO CHARGE	TOPE THE THE ENDERHOUSE
2/15/13	950		10:5	6 146	ANSAZS NJ
MATERIAL DESCRIPTION HISTOR	ic fili				
POLICE OF OFFICER	YADDRESS			TOTAL FORMY	
INMEDIATIVE RECYC	EING TECH		QUANTITY THIS	ORDER TODAY	

JNHOS/ATTVE RECYCLING TEGH
ROOSEVE (T. FIELD MAN*1300)

RECEIVED BY

CARRIES
SIGNATURE
SIGNATURE
SIGNATURE
STERNATURE
SEE REVERSE SIDE FOR COLLECTION TERMS

QUANTITY THIS OBDER TODAY LOADS THIS ORDER TODAY

1258 TH 10 CYD

NON-HAZARDOUS WASTE MANIFEST

	Plea	se print or type (Form dealgned for use on elite (2 pitch) typewriter)			_	-			
		NON-HAZARDOUS WASTE MANIFEST	1. Generators US EP/		/A			Manifest Document No	13001	2 Fage 1 of 1
		S. Generator's Name and Mailing Address U.S. EPA REGION IT/ROO	SRVET #						<u> </u>	<u> </u>
	4	290 BROADWAY, NEW YORK		•				<u> </u>		
		4. Generator's Phone (212) 637-42	75 ·							
		5. Transporter 1 Company Name		8.	US EPA ID N			A. State Trans		
		FREEHOLD CARTAGE, INC. 7. Transporter 2 Company Name		8.	D 054 126			6. Transports C. State Tran	-1 Phone 732-46	2-1001
				1				D. Transports		
	4	9. Designated Facility Name and Site Address 110 SAND CO. 136 SPACNOLI RD, MELVI	TTD NV 140	10. Kur	US EPA IÓ N	unibai		E. Stein Facili 1-4720	5-00490-0000	3-0
ļ			Mas NI III		N/	'A		F. FedBy P 631-58	6-5900	
		11, WASTE DESCRIPTION			•		12, Co No.	ntainers Type	13. Total Quantity	14. Unit WLNoi.
		a non hazardous, non re	GULATED						EV.	
	4	(SOIF)		,			1	CM	22 <u>-</u>	T
. [G E N	ţ.							•	
. !	E	С.							,	
- 1	2									
- 1	P.	d.								
NON-HAZARDOUS WASTE	Į					!		i		}
3	G. Additional Descriptions for Materials Lieted Above								odes for Wastes Listed Al	ove
SI	4		VELT FIELD							
8			RT AVE AND N CIY, NY	CLIN	ron Ro			ı		
AB		CATT DIS	CON	MIAT!	er #00	42				
Z	Į	15. Special Hendling Instructions and Additional Inter	mation							
之										
2										
			Y AY A	Z		/km				
1		18. GENERATOR'S CERTIFICATION: I hereby certi in proper condition for transport. The materials de	y that the contents of the ecobed on this manifest i	s shipmen are not au	tere fully and accur bject to federal heza	stely described adous waste reg	and are in a guiations	all respects		- ". "
		ON BEHALF DE VIERA	REGIO	ZE_						Date
		Printed Typed Name			Signature /	M) C	10	f	Ŋ	gnith Day Year
		17. Transporter 1 Acknowledgement of Receipt of Ma	terials				<u> </u>	/		Date
	RANSP	Printed/Typed Name	,	$\overline{}$	Signature			-		onth Day Year
	POR	18. Transporter 2. AdvisorMedgement of Receipt of Me	terials	1						Date
	ER	Printed/Typed Name	(2)		Signature	1			**	onth Day Year
	F	13. Discrepancy indication Space 20			 , 	··········	Ш	(799-	712	7 . Q .
1	Ĉ.	FUT 705 - #5245				٠		937	11/ 14	SO [V
1	֡֡֡֜֝֡֡֡֡֡֡	20, Facility Owner or Operator, Conflication of receipt	u ine waste meterials c	onered pl	urs menitost, exce	ox as noted in the	лт 19. 			Date
į,	Ť Y	Primed/Typod Neme HMOONE	· (Signature -	80)		м	2 13 13

.

PRINCED ON RECYCLED PAPER PORTER TO THE PAPE

TRUCKER COPY

110 Sand Company

170 Cabot Street West Babylon, New York 11704 TELEPHONES

Office - 631-249-4108

Scalehouse - 631-694-2822

Landfill - 631-694-2848

COSTUMERNO EO ACHAGES O COCKING CONTROL	SHEE DOEND COUR GROER NUMBERS TICKET NO.					
910001 3951 LANDEI	LL 012035 / 939710					
CUSTOMER NAME FE L #6.75-20V	GROSS WEIGHED BY					
MATERIAL SALE - CHECK	26.16 14.55 11.61 TONS TEM					
TASE STATE CODE TO THE TOP THE	CHECKHOJ CHARGE TIPE THE THE SERVE					
2/15/4/2 950	10:51 - MC A#3956 W3					
MATERIAL DESCRIPTION HISTORIE FILL						
THROWATIVE RECYCLING TECH	DUANTITY THIS ORDER TODAY					
RODSEVELT FIELD MAN413002						
	LOADS THIS ORDER TODAY					
RECEIVED BY CABRIER	TIL 61 TN 61 10 CYD					
SIGNATURE						
CUSTOMER SIGNATURE						
SEE REVERSE SIDE FOR COLLECTION TERMS						

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Piea	se print or type (Form designed for use on elite (12 pitch) typewriter)	•				
	NON-HAZARDOUS 1. Generator's US E WASTE MANIFEST	PAID No.		Manifest Document No	13007	2. Page 1 of 1
	3. Generator's Name and Mailing Address U.S. EPA REGION II/ROOSEVELT 290 BROADWAY, NEW YORK, NY 1000	Y				
	4. Generator's Phone (212) 637-4275					
	5. Transporter 1 Company Name	6. US EPA ID Number		A. State Trans	sporter's IDNJ-113	
	FREEHOLD CARTAGE, INC.	NJD 054 126 164			r 1 Phone 732-462	
	7. Transporter 2 Company Name	8. US EPA ID Number		C. State Tran	sporter's ID	
				D. Transporte	r 2 Phone	~
	9. Designated Facility Name and Site Address XNONXHAZ 110 SAND CO. 136 SPAGNOLI RD	10. US EPA ID Number			-00490-0000	3-0
	MELVILLE, NY 11747	N/A			86-5900	
	11. WASTE DESCRIPTION		12, Co No.	ontainers ! Type	13. Total Quantity	14. Unit Wt./Vol.
	a non hazardous, non regulated (SOIL))	1	CM	BST. 22	T
GWZU	b.					
ER	c.					
A T O R	•					•
ō						
R	d.					
	American Control Control		Į.	<u> </u>	Ļ	
	SITE ADDRESS: X ROOSEVELT FIEL STEWART AVE AN GARDEN CITY, N CONTAINE	id Clinton ave	_			·
	15. Special Handling Instructions and Additional Information					
	16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of in proper condition for transport. The materials described on this manife.	f this shipment are fully and accurately describe est are not subject to federal hazardous waste :	ed and are in regulations.	all respects	· ·	, · · · ·
	DN BEHALF OF US FRA REGAD II	Signature				Date Month Day Year
	Printed Typed Name MIKE EUGT	Signature	M	•	-	Month Day Year Date
Ŗ	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature		1		Month Day Year
ころのと	18. Transporter 2 Acknowledgement of Receipt of Materials	al	<i>\f</i>	dr.		Z 119 13 Date
TRANSPORTER	Printed/Typed Name	Signature			ı	Month Day Year
FAC	19. Discrepancy Indication Space		18.0	67	9	4039
L	20. Facility Owner or Operator, Certification of receipt of the waste materia	als covered by this manifest, except as noted in	item 19.		·	Date
T Y	Printed/Typed Name	Signature	1_		(文/9/3



170 Cabot Street West Babylon, New York 11704 TELEPHONES

Office - 631-249-4108

Scalehouse - 631-694-2822

Landfill - 631-694-2848

CUSTOMERNO CONTINUMBER 910001 27	CONTRACTOR OF THE PROPERTY OF	REGESALE SIC	BNO DUR CHOEK 0124	
CUSTOMER MANIES 25, 20 Y MATERIAL SALE - CHECK:	THAT THE STATE OF	6 CROSS 52,32	TARE NC1 14.76 (18:0)	
Z/19/13 MATERIAL DESCRIPTION URLL TILL	950			MC AA396E NJ
THADVALIVE RECYCLING T ROOSEVELT FIELD MANWIS	CVH		FOTAL FO Y THIS ORDER TODA HIS ORDER TODAY	
RECEIVED BY: ARRIER GNATURE JSTOMER		18 06 1 20 C	Green the March March 1	

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Plea	se print or type 🛫 (Form designed for use on elite (12 pitch) typewriter)		· · · · · · · · · · · · · · · · · · ·			
	NON-HAZARDOUS 1. Generator's US EPA I WASTE MANIFEST			Manitest Document N	· 13005	2. Page 1 of 1
	3. Generator's Name and Mailing Address U.S. EPA REGION II/ROOSEVELT 290 BROADWAY, NEW YORK, NY 10007 4. Generator's Phone (212) 637-4275					
		6. US EPA ID Number NJD 054 126 16	.		sporter's IDNJ-113 er 1 Phone 732-4 6	
		8. US EPA ID Number		C. State Tran	isporter's ID	<u> </u>
	9. Designated Facility Name and Site Address 110 SAND GO. 136 SPAGNOLI RD	10. US EPA ID Number		E. State Faci		03-6
	MELVILLE, NY 11747	N/A		F. Facility's F	hone 86-5900	
	11. WASTE DESCRIPTION		12. Co No.	ntainers Type	13. Total Quantity	14. Unit Wt./Vol.
	* Non Hazardous, Non Regulated (Soil)	·:	1	CM	EST. 22	T
GEZER	b.					
RATOR	C.	·				
R	d.					
	SITE ADDRESS: ROOSEVELT FIELD MALI STEMART AVE AND CLIN GARDEN CIY, NY CONTAINER # 9620		!			
	15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this in proper condition for transport. The materials described on this manifest a	shipment are fully and accurately dure not subject to federal hazardous	escribed and are in waste regulations.	all respects		
	ON BEHALF OF US EVA KEGION IF	Signature	19/2.	1		Month Day Year L 19 13
N-R	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Similar		7		Date
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials	Signature	حي	<u> </u>		Month Day Year Online Day Date
H H H H H H H H H H H H H H H H H H H	Printed/Typed Name	Signature				Month Day Year
FAC	19. Discrepancy Indication Space			13.5	ZTV 90	40253
L L	20. Facility Owner or Operator, Certification of receipt of the waste materials co		oted in item 19.			Date
Y	Printed/Typed Name	Signature	//			Month Hay 15

CUSTOMER COPY

110 Sand Company

SEE REVERSE SIDE FOR COLLECTION TERMS

170 Cabot Street West Babylon, New York 11704 TELEPHONES

Office - 631-249-4108

Scalehouse - 631-694-2822

Landfill - 631-694-2848

	SALE TO THE STATE OF THE STATE OF THE SALE
910001 398 LANDEI	LL 012436 940253
CUSTOMER NOVE 7-47 - 30YS	
MATERIAL SALE - CHECK	28 54 15 12 13 52 TONS CAK
THE RESERVE TO SECOND	THE THE TOTAL THE CHECK HO TO HAPGETYPE TO LICEUS PROCESS.
2212713	8:47 PC A 398G NJ
MATERIAL DESCRIPTION OF LC FILL	
INNOVATIVE RECYCLENCE TECH	TOTALTORA
RODSEVELT FIELD MAN#13005	QUANTITY THIS ORDER TODAY
	LOADS THIS ORDER TODAY
RECEIVED BY	13.52 TN
ARBIER OLO O O O	30 CYD
GNATURE A WELL V. V. V. V. V. V. V. V. V. V. V. V. V.	

NON-HAZARDOUS WASTE MANIFEST

64,960

rec	ise print of type (Form designed for use of elite (12 piloti) typewriter)	.				
	NON-HAZARDOUS 1. Generator's US WASTE MANIFEST	S EPA ID No. N/A		Manifest Document No	13003	2. Page 1 of 1
	3. Generator's Name and Mailing Address U.S. EPA RESION II/ROOSEVELT 290 BROADWAY, NEW YORK, NY 1000	9				·
	4. Generator's Phone 212) 637-4275					
	5. Transporter 1 Company Name FREEHOLD CARTAGE, INC.	6. US EPA ID Number NJD 054 126 164		A. State Trans B. Transporte		
	7. Transporter 2 Company Name	8. US EPA ID Number		C. State Trans	<u></u>	Tear
	Designated Facility Name and Site Address	10. US EPA ID Number		D. Transporte E. State Facili		
	9. Designated Facility Name and Site Address 110SAND 60. 136 SPAGNOLI RD			1-4726	-00490-00003-	9
	MELVILLE, NY 11747	N/A		F. Facility's PI 631-58	hone 3 6-5900	
	11, WASTE DESCRIPTION		12. Co No.	ntainers Type	13. Total Quantity	14, Unit Wt/Vol.
_~	 non hazardous, non regulate (soil) 	D			EST	
			1	CM	22	Ŧ
GEZER	b.					
E	C.					
A						
O R	d.					
		м				
	STATE ADDRESS: HOUSEVELT FIELD M.		.	H. Handling C	odes for Wastes Listed Above	9
	STEWART AVE AND C GARDEN GITY, NY	LINTON AVE				
	0701	_				
	CONTAINER # 7 + 7 15. Special Handling Instructions and Additional Information				· · · · · · · · · · · · · · · · · · ·	
7 /						
			v e			
	 16. GENERATOR'S CERTIFICATION: I hereby certify that the contents in proper condition for transport. The materials described on this ma 	of this shipment are fully and accurately describe nifest are not subject to federal hazardous waste n	d and are in regulations.	all respects		v4.
	DIPERALFOF IS PLA DEGIC					Date
	XMIKE EHMT	Signature	ZIL		Mont	h Day Year
₽ ⊞-	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signafture	-		Mont	Date h Day Year
100	Bob Odoncak	do/>				- 18 13
お用一出のものととは一	18. Transporter 2 Acknowlegigement of Receipt of Materials Printed/Typed Name	Signature			Mont	Date h Day Year
	19. Discrepancy Indication Space					
FACI		······································		6N	94	OCHS
Ļ	20. Facility Owner or Operator, Certification of receipt of the waste mate	naus covered by this manifest, except as noted in i	rem 9.			Date
Ť Y	Printed/Typed Name	Signature			Mon	1843

170 Cabot Street West Babylon, New York 11704 TELEPHONES

Office - 631-249-4108

Scalehouse - 631-694-2822

Landfill - 631-694-2848

Customerino. 910001	E.O. NEWBER	1 9100000	LARDFII		OE-MO	enden mun 012436		KET NO: 0085			
CUSTOMER NAME	I Wysa-20Y Saif Check	· .		SROSS 32.48	17.22	15,26	TOMS	CAK			
2/18/13	TAT. CHUCK.	GODE 4 5 (7)		IN.	9;28	CHECKINO (CHA	A 149	ICENSE NO.			
	HIFTISTORIC FIL	Secretary				itoja utobay					
	E RECYCLING T FIELD MANHIS	_		QUANTITY THIS ORDER TODAY LOADS THIS ORDER TODAY							
CARRIER SIGNATURE	RECEIVED BY:			16 26 20 (1.4.6 3.41						
CUSTOMER SIGNATURE	FEVERSE SIDE FOR	COLLECTION	TERMS		<u>_</u>						

399 60,600

NON-HAZARDOUS WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST						
WASTE MANIFEST	1. Generator's US EPA ID No. N/A			Manifest Document No	13064	2. Page 1 of 1
				,	-,,,,,,	
3. Generator's Name and Mailing Address U.S. EPA REGION II/ROOS 290 BROADWAY, NEW YORK 4. Generator's Phone (212) 637—427	, NY 10007		•			·
5. Transporter 1 Company Name	6. US EF	A ID Number		A. State Trans	sporter's ID NJ-1	13
DIME HOLLMANN ATOURAGE		126 164			r 1 Phon? 32-462-	
7. Transporter 2 Company Name	· · · · · · · · · · · · · · · · · · ·	PA ID Number		C. State Trans		
The sports of contrast the second	1	A 12 Horison				
	10 -	D. 10 P.		D. Transporte		**
9. Designated Facility Name and Site Address 110 SAND CO.	10. US E	PA ID Number		E. State Facili 1-4726-(_{19's 10} 2 <mark>0490-00003-</mark>	o
136 SPAGNOLI RD	/			F. Facility's Pl		
MELVILLE, NY 11747		A			36-5900	
11. WASTE DESCRIPTION			12. Co	ntainers	13. Total Quantity	14. Unit Wt/Vol.
II. WASTE DESCRIPTION	*		No.	Туре	Quantity	Wt/Vol.
a. NON HAZARDOUS, NON RI	EULATED	<u> </u>		-	E 7.	
(SOIL)	•				22	
<u> </u>			1	CM	22	T
G b						
[<u>E</u>]			. :			- 1
[N]	•				į	ł
R c.						
Α .					İ	
IT .					<u>'</u>	
G b. E N E c. A T O R d.						
					`	
		ga ² s so		**		ľ
G. Additional Descriptions for Materials Listed Above				U Panding C	odes for Wastes Listed Al	
	LT FIELD MALL			ri, rizalding C	Coes (of yeastes disted Ad	
No. and the second seco						
TARNATE	AVE AND CLINTON AVE					
GARDEN	CITY, NY					
	·					J
CONTAINER # 966 15. Special Handling Instructions and Additional Info	<i>,U</i>	· · · · · · · · · · · · · · · · · · ·				
10 10 10 10 10 10 10 10 10 10 10 10 10 1		•				
15. Special Handling Instructions and Additional Info	erranon					1
15. Special Handling Instructions and Additional Info	HI KUUTI					
15. Special Handling Instructions and Additional Info	rtisauoti					
15. Special Handling Instructions and Additional Info	rification (
15. Special Handling Instructions and Additional Info	rification (٠
15. Special Handling Instructions and Additional Info	miauon					7 / 27 / 28
16. GENERATOR'S CERTIFICATION: I hereby cert	bify that the contents of this shipment are fully a	nd accurately described a	and are in	all respects		7 / A
	bify that the contents of this shipment are fully a	nd accurately described a eral hazardous waste reg	and are in gulations.	all respects		
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials di	bify that the contents of this shipment are fully a escribed on this manifest are not subject to fed	nd accurately described a eral hazardous waste reg	and are in gulations.	all respects		Date
16. GENERATOR'S CERTIFICATION: I hereby cert	bify that the contents of this shipment are fully a escribed on this manifest are not subject to fed	nd accurately described a	and are in gulations.	àll respects		
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials de	tify that the contents of this shipment are fully a escribed on this manifest are not subject to fed	nd accurately described a cral hazardous waste reg	and are in gulations.	àll respects		onth Day Year
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials de DV SERVE OF USELA Printed/Typed Name X MIVLE EHMT	bify that the contents of this shipment are fully a escribed on this manifest are not subject to fed	nd accurately described a eral hazardous waste reg	and are in rulations.	all respects		onth Day Year
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials de DV SERVE OF USELA Printed/Typed Name X MIVLE EHMT	bify that the contents of this shipment are fully a escribed on this manifest are not subject to fed Signature Signature	nd accurately described a	and are in gulations.	all respects		Onth Day Year Date
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials de DV SERVE OF USELA Printed/Typed Name X MIVLE EHMT	bify that the contents of this shipment are fully a escribed on this manifest are not subject to fed	nd accurately described a	and are in gulations.	all respects		Date Day Year Date
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials de DV SERVE OF USELA Printed/Typed Name X MIVLE EHMT	bify that the contents of this shipment are fully a escribed on this manifest are not subject to fed OFF Signature Signature Signature	nd accurately described a gral hazardous waste reg	and are in gulations.	all respects		onth Day Year Date Onth Day Year
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials de DV SERVE OF USELA Printed/Typed Name X MIVLE EHMT	bify that the contents of this shipment are fully a escribed on this manifest are not subject to fed Office of the subject to fed Signature Signature Signature	eral hazardous waste reg	and are in gulations.	ail respects	M	Date Day Year Date Onth Day Year Date Date
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials de DV SERVE OF USELA Printed/Typed Name X MIVLE EHMT	bify that the contents of this shipment are fully a escribed on this manifest are not subject to fed OFF Signature Signature Signature	eral hazardous waste reg	and are in julations.	àil respects	M	onth Day Year Date Onth Day Year
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials of Printed/Typed Name THE AND THE PRINTED TO T	bify that the contents of this shipment are fully a escribed on this manifest are not subject to fed Office of the subject to fed Signature Signature Signature	eral hazardous waste reg	and are in gulations.	all respects	M	Date Day Year Date Onth Day Year Date Date
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials of Printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of M. Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of M. Printed/Typed Name 19. Discrepancy Indication Space	bify that the contents of this shipment are fully a escribed on this manifest are not subject to fed Office of the subject to fed Signature Signature Signature	eral hazardous waste reg	gulations.		M	Date Day Year Date Onth Day Year Date Date
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials of Printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of M. Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of M. Printed/Typed Name 19. Discrepancy Indication Space	bify that the contents of this shipment are fully a escribed on this manifest are not subject to fed Office of the subject to fed Signature Signature Signature	eral hazardous waste reg	gulations.	all respects	M	Date Day Year Date Onth Day Year Date Date
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials of the printed/Typed Name T T Transporter 1 Acknowledgement of Receipt of M. Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of M. Printed/Typed Name T T T T Transporter 1 Acknowledgement of Receipt of M. Printed/Typed Name 19. Discrepancy Indication Space	Signature Signature Signature	eral hazardous waste reg	gulations.		M	Date Day Year Date Onth Day Year Date Date
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials of the printed/Typed Name To the printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of M. Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of M. Printed/Typed Name 19. Discrepancy Indication Space	Signature Signature Signature	eral hazardous waste reg	gulations.		M	Date Onth Day Year Date Onth Day Year Date Onth Day Year A 13
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials of Printed/Typed Name T	Signature Signature Signature Signature Signature Signature	eral hazardous waste reg	gulations.) 9 G	Date Onth Day Year Date Onth Day Year Date Onth Day Year Date Onth Day Year
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials of Printed/Typed Name T 17. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name T 19. Discrepancy indication Space F A C 1 20. Facility Owner or Operator; Certification of receipt of M P Printed/Typed Name	Signature Signature Signature	eral hazardous waste reg	gulations.) 9 G	onth Day Year Date Onth Day Year Date Onth Day Year Onth Day Year



170 Cabot Street West Babylon, New York 11704 TELEPHONES

Office - 631-249-4108 Scalehouse - 631-694-2822 Landfill - 631-694-2848

CUSTOMER NO	PO NUMBER	TRUEKNO	TAVE OF	ALEGIC	اولا	NO.	OUR 0	RDERNUM	35 (j	TICKET	NO.
910001	;	398	LANDFI	tt.			. 6	112436		940083	3
CUSTOMER NAME	1747 30YS	,		GROS		146		NET	100	ur we	CHEDEY
	SALE - CHECK			30.3	Œ.	15.1	1	5.19	.TON	s N	
U. VASE	PERCENTAGE CODE	W IF IAL		10		ola		HECK NO 16HA	HGETYPE:	FICENS	ENO
2/18/13		-950				9:25	Ž.	lv.	C A	63986	NJ
MATERIAL DESCR	RETIONORIC FIL	i.	<i>).</i>					<u> </u>			
	CHORAU VEREWADIOTES							AN HODDAY			
	RECYCLING T	ECH				/ THIS O	A CONTRACTOR OF THE PARTY OF TH				
ROOSEVELT	FIELD MANA13	1004							•		•
•				LOA	DS TH	IS ORDI	R TOD	AY 			
	RECEIVED BY:	,		1	9 TI						1
ARRIER IGNATURE	Rece		·	· *	197 N	1 1 7					
USTOMER IGNATURE	<u> </u>									•	ļ

ш	
=	
'n	
3	
3	
_	
쏲	
7	
Q	
\Box	
Œ	
⋖	
N	
ď	
7	
Ť	
Ż	
ㅈ	
오	
~	

		N-HAZARDOUS WÄSTE N	IANIF			₹₩, * #₩. \
Plea	NON-HAZARDOUS WASTE MANIFEST	isch) typewriter) - Generator's US EPA ID No. H/A	<u></u>	Manifest Document No	13010	2. Page 1
	3. Generator's Name and Mailing Address U.S. SPA RECTOR II/R. 403	COLD TOTAL				
4	290 BROADWAY, HEW YORK.			——		
	4. Generator's Phone (212) 537-47			<u> </u>		
	5. Transporter 1 Company Name ARICO	8. US EPA ID Number] NYR 000 107 326		A. State Trans	Sporter's ID 16429. r 1 Phone 6318586—	
	7. Transporter 2 Company Name	8. US EPA ID Number		C. State Tran) ,,,,,
			.,	D. Transport		
	Designated Facility Name and Site Address 110 3410 36	10. US EPA ID Number		E. State Facil	tys 10 • 00490=000 03=1	h
	136 SPACKOLI R)			F. Fadlity's P	Toridi	<u>~</u>
	Halvelle, at 11747	H/A		631-586	- 5900	
	11, WASTE DESCRIPTION		12. G No.	Ontainers Type	13. Total Quantity	14, Unit WLVol.
	NON HATARIOUS, NOT B	EGULATE	 		4:4	
	(301%)		1	₹≯!	22.0	Т
G	b.					
GENER						
R	c					·
A T O R	·			1		
F	d.	-	 			•
	· . ·					
	A ZERARETE. TO HOLD PAU	FIELD MAIL VE AND CLINTON AVE TY, HY TAINUR 4 3 2 2 4 7		H. Handling C	odea for Wastes Listed Abov	YB .
	15. Special Handling instructions and Additional Informa			ļ		2
-	15. Special charging insurations and vocational missing	and,		• •	21411	9
	·				7119	
					01	
				7 / 1		
	16. GENERATOR'S CERTIFICATION: I hereby certify to in proper condition for transport. The materials described to the condition of the conditio	that the contents of this shipment are fully and accurately describ- ribed on this manifest are not subject to federal hazardous waste.	ed and are a regulations.	a respects		
	Carl Bright Commence	and the second			Γ-	Date
	Printed/3 yped Name	Signature / /	المستر الم		Mar	سد الأراب
Ī	17. Transporter 1 Acknowledgement of Receipt of Mater	rials				Date
Ä	Printed/Typed Name	ewtengi			Mor	nth Day Year
ğ	19. Transporter 2 Acknowledgement of Receipt of Mate	riels			14-8	Date
- FRAZSPORTER	Printed/Typed Name	Signature			Mor	nth Day Year
F	19. Discrepancy Indication Space				()) (17 -7
A		g:44	1.54	a Ř	1 250	
ĭ	20. Facility Owner or Operator, Certification of receipt of	i the waste materiale covered by this matrices, except as noted in	1 Herri 19.			Date
<u> </u>	Printed/Typed Name	Signature	/-		Мо	
Y			/ (Same of the		科学工作

170 Cabot Street West Basylon, New York 11704 **TELEPHONES**

Office - 631-249-4108 Scalehouse - 631-694-2822

Landfill - 631-694-2848

				and the street of the street and the street of
GUSTOMERANO COM AURIBER			FORTOE ERNUMBERTE	TICKET NO.
CUSTOMER NAMED 472-201 MATERIAL SALE - CHECK		30.05 117.05 1	E. SE	
E/14/13		(a) IN (a) Plus No.	CHECK NO JONARGE (18	E LICENSE MO
MATERIAL DESCRIPTION TO				
NOOSEVELT FIELD MAN#1		QUANTITY THIS ORDE	R TODAY	
		LOADS THIS ORDER TO	ODAY	
ARRIER IGNATURE		SN CAD		
USTOMER IGNATURE				
SEE REVERSE SIDE FU	R COLLECTION TERMS			그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그

NON-HAZARDOUS WASTE MANIFEST

Pleas	se print or type (Form designed for use on elite (12)	pitch) typewriter)				•	
1000	WASTE MANIFEST	1. Generator's US EPA ID N		<i>J</i>	Manifest Document No	° 13006	2. Page 1 of 1
	3. Generator's Name and Mâiling Address U.S. EPA REGION II/ROOS 290 BROADWAY, NEW YORK,					,*	
	4. Generator's Phone (212) 637-427						
	5. Transporter 1 Company Name	6.			A. State Tran		-113
	FREEHOLD CARTAGE, INC.		NJD 054 126		B. Transporte	at I Filotie + =	2-1001
	7. Transporter 2 Company Name	8. I	US EPA ID N	lumber	C. State Tran	····	
	9. Designated Facility Name and Site Address 110 SAND CO.	10). US EPA ID I	lumber	D. Transporte E. State Faci		- 0
	136 SPAGNOLI RD MELVILLE, NY 11747	1	N/A		F. Facility's F	thone 66-5900	
	11. WASTE DESCRIPTION			12. No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
	a. NON HAZARDOUS, NO (SOIL)	n regulated		1	CM	EST - 22	T
GEZER	b.						:
A	C	· · · · · · · · · · · · · · · · · · ·					
O R	d						
	Stewart Garden C	T FIELD MALI AVE AND CLII ITY, NY ONTAINER #_		-			
	15. Special Handling Instructions and Additional Inform	nation	and the second s	7		i	
	16. GENERATOR'S CERTIFICATION: I hereby certify in proper condition for transport. The materials design of the condition for transport.	that the contents of this s	hipment are fully and acc	urately described and are zardous waste regulation	in all respects	<u>(31) /317 /31</u>	
	_	REGOLIT		_		г	Date
	Printed Typed Name MILE FILM INT	PROJUNICE	Signature	Mona	<i></i>		Month Day Year 2-12-71 13
Ţ	17. Transporter 1 Acknowledgement of Receipt of Mate	erials					Date
CANSp.	Printed/Typed Plames / TATGACO	71	Signature	Takeh!	1- ara	ubni b	Month Day Year 12 29 5
TEAZWPOET-EE	15 Transporter 2 Acknowledgement of Receipt of Mate Printed/Typed Name	erials	Signature				Date Month Day Year
F A C	19. Discrepancy Indication Space 3951 - LoT, 240	;	#9	42229		18.940	h
	20. Facility Owner or Operator; Certification of receipt of	of the waste materials cov	ered by this manifest, exc	ept as noted in item 19.			Data
T Y	Printed/Typed Name		Signature		\mathcal{J}		Date Month Day Year 2 1 2 1 3



170 Cabot Street West Babylon, New York 11704 TELEPHONES

Office - 631-249-4108

Scalehouse - 631-694-2822

Landfill - 631-694-2848

CUSTOMER NO P.O. NUMBER	TRUCKINO	TYPEOF	AUE	- JO	B NO:	OUR ORDER	RNUMBER	TICK	ET NO
910001	3961	LAMDFI	L L			012/	136	942	229
CUSTOMER NAME:			GROSS		TARE	other transfer and the training		UNIT	WEIGHED BY
FCI#675-20Y MATERIAL SALE - CHECK		· · · · · · · · · · · · · · · · · · ·	33.6	2	14.68		1	TONS.	TEM
DATE PERCENTAGE CODE	MATERIAL		IN		OUT	CHECK	NO/CHARGE	TYPE Lic	ENSE NO
2/27/18	950	J			10:35	, ;	МC	A 395	E NJ
MATERIAL DESCRIPTION: HISTORIC FIL	. I.	**							
DELIVERY ADDRE	SS				的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	TOTALT	DAY		
INNOVATIVE RECYCLING TROOSEVELT FIELD MAN#13		4. S. S.	. QUA	ידודא	Y THIS O	RDER TOD	ΑY		
			LOA			R TODAY			<u></u>
RECEIVED BY:			18.9						
CARRIER SIGNATURE			l .	2 (٠		
CUSTOMER SIGNATURE						·			. ,
SÉÉ RÉVERSE SIDE FOR	COLLECTION	y terms				,			?

NON-HAZARDOUS WASTE MANIFEST

Plea	se print or type (Form designed for use on elite (1	2 pitch) typewriter)						٠	
	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID N/A	No.	\	1	Manifest Document No	13008		Page 1 of 1
	3. Generator's Name and Mailing Address U.S. EPA RECION II/ROO 290 BROADWAY, NEW YORK 4. Generator's Phone (212) 637–427.	, NY 10007	. 4	•					<u> </u>
	5. Transporter 1 Company Name	6.					sporter's NJ-113		,
	FREEHOLD CARTAGE, INC.		NJD 054 126				r 1 Phone 732–4 6	2-100	1
	7. Transporter 2 Company Name	[·	US EPA ID N	umber		C. State Trans D. Transporte			-
	9. Designated Facility Name and Site Address	. 10.	. US EPA ID N	lumber		E. State Facili	ty's ID		
	110 SAND CO. 136 SPAGNOLI RD						0 0490-0000	3 -0	
	MELVILLE, NY 11747		N/A				586 - 59 0 0		
	11. WASTE DESCRIPTION				12. Co No.	ntainers Type	13. Total Quantity		14. Unit Wt./Vol.
	a. 1701 171 1701 1701				110.	1,700	PC.		
	NON HAZARDOUS, NON (SOIL)	REGULATED			1	CM	27		T
	b.						20		
G E N	U.								
NE	· · · · · · · · · · · · · · · · · · ·						<i>:</i>		
R	с.		_						
A									
O R	d			.—— <u>—</u> I				-	
	:		•				,		
	G. Additional Descriptions for Materials Listed Above	· · · · · · · · · · · · · · · · · · ·				H. Handling C	odes for Wastes Lister	d Above	,
	SITE ADDRESS: ROOSEVELT								
		VE AND CLINT	on ave						
	GARDEN CI	_	9019						
		CONTAINER #_	1001	·					
	15. Special Handling Instructions and Additional Info	rmation		-					
						<u> </u>		\mathbb{Z}/L	
	 GENERATOR'S CERTIFICATION: I hereby certific proper condition for transport. The materials de 	escribed on this manifest are	not subject to federal haz	rately described a ardous waste reg	and are in julations.	all respects			
	OW REHALF US 125 1	RIA REGION	<i>tt</i>						Date
	Printed/Typed Name		Signature	1///	A	- :		Month	Day Year
F	17. Transporter 1 Acknowledgement of Receipt of Ma	aterials							23 / 13 Date
R A	Printed/Typed Name		Signature			·			Day Year
SP	Brinn mucousit								27 13
TRANSPORTER	 Transporter 2 Acknowledgement of Receipt of Ma Printed/Typed Name 	atenais (Signature	<u></u>	•••				Date Day Year
Ė R								1	_
	40.00								
IFI	19. Discrepancy Indication Space	<u> </u>	TKTVOIDEL	- تى مە م		1	/	~~~~ <u>~</u>	
AC	5245-64,550	RELADE	#	942)	(17.2	27	h
IAI	5245— Let Stu 20. Facility Owner or Operator; Certification of receipt	RELADE	god by this manifest, exce	- 1 -		<u>) </u>	(17.2		h Date

170 Cabot Street West Babylon, New York 11704 **TELEPHONES**

Office - 631-249-4108 Scalehouse - 631-694-2822 Landfill - 631-694-2848

CUSTOMER NO.	P.O. NUMBER	TRUCK NO.	TYPE OF	SACE	JOE	NO.	OUR ORD	ER NUME		TICKE	T NO
910001		5245	LANDEL	LL.			918	2436		9422	32
CUSTOMER NAME		·	*	GROSS		TARE		ET	UNIT	a y	VEIGHED BY
	#705-20Y Sale - Check			32.2	9	15.0	4 17.	25	TONS		TEM
DATE	PERCENTAGE TRUCK	MATERIAL CODE		IN.	SERVE I	OUT	CHEC	K NO /CHAF	IGE TYPE	ÉICE	NSE NO.
2/27/13		950	j			10:46	· ·	M (; A	5428	NJ :
MATERIAL DESCR	RIPTION: HISTORIC FIL	. (.									
	DELIVERY ADDRE	SS					TOTAL	TODAY			
	E RECYCLING T FIELD MANULS			LOA	DS TH	IS ORDE	RDER TO				
- • 	RECEIVED BY:			· .			OFFICE	JSE UNITY	Transition of the Control	AND THE PROPERTY OF THE PARTY O	The state of the s
ARRIER GNATURE		<u> </u>		1 .	S TA	-					
JSTOMER GNATURE			•		Maria Maria			*			

NON-HAZARDOUS WASTE

11042

NON-HAZARDOUS WASTE MANIFEST. Please print or type (Form designed for use on eitle (12 pitch) type/writer) 1. Generator's US EPA ID No. **NON-HAZARDOUS** 2. Page 1 13011 1 M/A WASTE MANIFEST 3. Generator's Name and Malling Address U.A. EPA REGIOS II/ROCCEVELT 290 BROADHAY, HEN YOR. , HY 10007 4. Generator's Phone (212) 637-48-0c 4275 US EPA ID Number NYR 000 107 325 A. State Transporter's ID 1629PC DUSTAD 8. Transporter 1 Phone 531-556-5900 7. Transporter 2 Company Name US EPA ID Number C. State Transporter's ID D. Transporter 2 Phone 9. Designated Facility Name and Site Address 110 3AN J C 10. US EPA ID Number E. State Facility's ID 1-4726-00470-00003-0 136 SPACHOLI ND F. Facility's Phone 631~586~5900 K/1 MELVILLE, NY 11747 11. WASTE DESCRIPTION 12. Containers 14. Unit WL/Vol. Ýiπ. MON HAZAR-MOUS, NON REGULATED Ť 1 ŒΕ 2 m 0 (90IL) ER Ť O R G. Additional Descriptions for Materials Listed Above H. Handling Codes for Wastes Listed Above SITE ADREST: ROOMSYMET FIELD MALL EVA HOTHILD CHA SVA THANHER CARDER CITY, BY CONTAINER # 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTERCATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to faderal hazardous waste regulations. Year Simplime Dav Primod/Typed Name Date 17. Transporter 1 Acknowledgement of Receipt of Materials Day Year Printed/Typed Name Signatura 15. Transporter 2 Acknowledgement of Receipt of Materials Skinsture Day 19, Discrepancy Indication Space 20. Facility Cwiner or Operator; Centification or receipt of the weste materials covered by this manifest, except as noted in

8ignatur8

Printed/Typed Neme

170 Capot Street West Babylon, New York 11704 TELEPHONES

Office - 631-249-4108

Scalehouse - 631-694-2822

Landfill - 631-694-2848

Existence			ू स्वयं स्थापित है । इस विकास				TICKET NO.
910001		1542	LONDEI M			012436	939404
CUSTOMER NAM	0#472-20Y						onens prodent
	BALE - CHECK	suita é a é re		36. 27	17.96	118.31) Ti	ms cak
							de andre de la companya de la companya de la companya de la companya de la companya de la companya de la compa
2/14/13		950			9:15	MC	16429PC
MATERIAL DESC	PUISTORIC FIL	L					

ROOSEVELT FIELD MAN#13011 RECEIVED BY:

CARRIER SIGNATURE

CUSTOMER SIGNATURE

SEE REVERSE SIDE FOR COLLECTION TERMS

QUANTITY THIS ORDER TODAY

LOADS THIS ORDER TODAY

18.31 TN SO CAD

Shipper No.

				Carrier No	
Page 1 of 1	LEAR BROOK			Date 2	19/13
- di	(Name o	of carrier)	(SCAC)		•
On Collect on Delivery shipments, the letters'COD' must appear before consignee's TO: Consignee U.S. EPA REGION II TREAT		Shipper U.S.	EPA REGION II,		IELD SITE
Street CLINTON RD		CADDEM	RT AVE & CLIN	MV	e ia
City GARDEN CITY State, NY	Zip Code	City GARDEN	J111	State NI Zip C	ode
	Zip Oodo	24 hr. Emergency C	contact Tel. No	Vehicle	
No. of Units	BASIC DESCRIPTION		TOTAL QUANTITY	Number WEIGHT	CHARGES
No. of Units & Container Type HM Proper Shipping Name, H UN or NA Number, Pac	Hazard Class UN or NA Number, F king Group or Hazard Class	Proper Shipping Name, s, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)	ATE (For Carrier Use Only)
Non Hazanson	s, NON REGULATED	(WARR)	4800		1
1			4800		6/6)
, v			4000		em
, \			11000		CNO
7			4800		8/21
			2400		ES
		*			- 6
					. 3
			1		
1					
PLACARDS TENDERED: YES	10 🗆	REMIT			
Note — (1) Where the rate is dependent on value, shippers are required specifically in writing the agreed or declared value of the property, as followagreed or declared value of the property is hereby specifically stated by the same of the property is hereby specifically.	bws: "The consignment are fully and accurate shipper to described above by the proper ship."	ately		C.O.D. FEE:	
be not exceeding per (2) Where the applicable tariff provisions specify a limitation of the carrier's liability a release or a value declaration by the shipper and the shipper does no the carrier's liability or declare a value, the carrier's liability shall be limited to the carrier's liability or declare a value, the carrier's liability shall be limited to the carrier's liability shall	t release in all respects in proper condition	fare n for Subject to Section 7 of the	Amt: \$ conditions, if this shipment is to be d] \$
provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling must be so marked and packaged as to ensure safe transportation. See Sectitem 360, Bills of Lading, Freight Bills and Statements of Charges and Section	or stowing on 2(e) of	following statement:	on the consignor, the consignor sake delivery of this shipment without larges.	t payment of FREIGHT PREPA	T CHARGES
the Contract Terms and Conditions for a list of such articles. RECEIVED, subject to the classifications and tariffs in effec	ct on the date of the issue of this Bill of Lading,	tination and as to ea	(Signature of Consignor) ich party at any time interested in all	except when box right is checked or any said property, that every s	collect ervice to be
the property described above in apparent good order, exc tents of packages unknown), marked, consigned, and de (the word carrier being understood throughout this contre possession of the property under the contract) agrees to ce nation, if on its route, otherwise to deliver to another carrie ally agreed as to each carrier of all or any of, said propert	stined as indicated above which said carrier act as meaning any person or corporation in arry to its usual place of delivery at said desti- er on the route to said destination. It is mutu-	sification on the date of Shipper hereb	by certifies that he is familiar with ation and the said terms and condition	all the lading terms and condi-	tions in the
SHIPPER U.S. EPA REGION	IL	CARRIER (L	ear Broot	۷.	
PER VIGINIA	2/19/17	PER			
WOWN TO T	-/1//-	DATE (2/19/13	>	
Permanent post-office address of shipper.	PRINTED ON RECYCLED PAPER PRINTED WITH	STYLE CF365-4 ©	2003 LABEL ASTER ® (8	800) 621-5808 www.label	master.com

Shipper No.

99	- i				Carrier No	
_ 1 1	CLEAR	BROOK			Data	2/20/13
Page of		(Name of c	earrier)	(SCAC)	Dotto _	
TO	"COD" must appear before consignee's name or a	1	FROM: U.S. F	- pa/Rose	vect	CONTRACTOR OF STREET
Consignee US EP/	+ Region II/Ki		Street SPW/	or Due el	CLINTON	Pe
Street CLINTO	W. RD, TREATMEN	T PLANT	City CAN	er Ave el	State NY	Zir Code
City GARDEN CITY	State, NY	Zip Code				
Route					Vehicle	-
No. of Units	B B	ASIC DESCRIPTION	nor Chinaina Nama	TOTAL QUANTITY	WEIGHT (Subject to	CHARGES
& Container Type	Proper Shipping Name, Hazard (UN or NA Number, Packing Gr	oup or Hazard Class, P	per Snipping Name, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)	RATE (For Carrier Use Only)
	Nontharmon	S NON KEGUL	ARO WAR	2 48 9 0	p	130
1		•		4500		Sil
1				4800		6
				4800		(1)
7	×		(a)	4800		EM
				4800		EM
1				4800		EM
	, x					
4						
		*	=			
PLACARDS TE	NDERED: YES NO	1	REMIT			
Note — (1) Where the rate is depend specifically in writing the agreed or dec	dent on value, shippers are required to state clared value of the property, as follows: "The is hereby specifically stated by the shipper to	I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping	C.O.D. TO: ADDRESS		1000	EEE:
be not exceeding (2) Where the applicable tariff provisions a release or a value declaration by the	perspecify a limitation of the carrier's liability absent e shipper and the shipper does not release	name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for	COD	Amt: \$ prditions, if this shipment is to be:	C.O.D. I PREPAI COLLEC	FEE: ID CT S
provided by such provisions. See NMFC I (3) Commodities requiring special or add must be so marked and packaged as to a	itional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of and Statements of Charges and Section 1(a) of	transport according to applicable international and national governmental regulations. Signature	consignee without recourse or following statement. The carrier shall not make freight and all other lawful charge	n the consignor the consignor	shall sign the CHARG	EIGHT CHARGES PREPAID Check box if charges are to be
the property describ tents of packages (the word carrier b possession of the p nation, if on its rout	act to the classifications and tariffs in effect on the de bed above in apparent good order, except as not unknown), marked, consigned, and destined as in erig understood throughout this contract as mea roperty under the contract) agrees to carry to its use. otherwise to deliver to another carrier on the ach carrier of all or any of, said property over all of	ed (contents and condition of con- ndicated above which said carrier ning any person or corporation in sual place of delivery at said desti- tute to said destination. It is mutu-	tination and as to each performed hereunder sh s fication on the date of s Shipper horeby	party at any time interested in all half be subject to at the bill of lac- tripment certifies that he is familiar with in and the said terms and condition	or any said property that e ng terms and conditions in t all the lading terms and	every service to be the governing clas- conditions in the
SHIPPER U.S. ERA	Region II		CARRIER CL	EAR BROOK		200
PER MILLE FO	Region II	3	PER	1200		
			DATE &	2/20/13		

Shipper No. Carrier No.

			2/2/1	13			
Page _1 of1	me of carrier)	(SCAC)	Date Juli				
On Collect on Delivery shipments, the fetters COD" must appear before consignee's name or as otherwise provided in item 430, S TO: Consignee U.S. EPA REGION II TREATMENT PLANT	Shipper U.S. E	Shipper U.S. EPA REGION II/ROOSEVELT FIELD SITE					
CLINTON RD		RT AVE & CLINT	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10				
Sileal	City GARDE	N CITY S	State NY Zip Code				
City GARDEN CITY State, NY Zip Code	— With Atlantian (
Route			Vehicle Number				
No. of Units & Container Type BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group Hazard C	er, Proper Shipping Name, lass, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	(Subject to RATE (For t	RGES Carrier Only)			
ITT NON HAZARDOUS NON REGULAT	TED (WATER)	3500					
	11	4800					
	11	4800	(51)				
	()	4800	6/19				
	1	4800	EM				
	£ [4800	EAY				
		4800	EAS				
	11	4800	ERS				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
/v /							
	-40						
PLACARDS TENDERED: YES 🖂 NO 🖂	REMIT C.O.D. TO:			THE PARTY OF THE P			
Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to described above by the proper harms and are classified, parameter of the property of the prope	ts of this courately shipping shipping and are	ADDRESS COD ADDRESS		FEE: JD [] CT [] \$			
a release or a value declaration by the shipper and the shipper does not release in all respects in proper cond the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See MMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of	pplicable consigned without recourse collisions are statement. The carrier shall not mak freight and all other lawful cha	or e Subject to Section 7 of the conditions, I this shipment is to be cellwered to the consignee without recourse on the consigner, the consigner shall sign the		uges lo be			
the Contract Torms and Conditions for a list of such articles. RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the world carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) graces to carry to its usual place of delivery at said destination, it is route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination.	tination and as to eac performed hereunder : sification on the date of Shipper hereby	shall be subject to all the bill of lading f shipment. y certifies that he is familiar with all ion and the said terms and conditions		cilect			
SHIPPER U.S. EPA RECIONS. II	CARRIER		A-0.				
PER WHAT CAME DANGEROUSE	PER			1			
1-00-0-7 7 10000	DATE 2/21/	13					
Permanent post-office address of shipper.	STYLE OF365-4 ©	2003 LABELIMASTER @ (80)	0) 621-5808 www.labelmaster.com				

Shipper No.

		ONIGINAL — INC	of HEGOTIAGE		Carrier No	2/26/13
Page 1 of	1	(Name of	carrier)	(SCAC)	Date _	W/DICTIO
TO:	e'COD" must appear before consignee's name or as			EPA REGION II		FIELD SITE
Street CLINTON R			GIRRINI	CTTY		7-0-1
City GARDEN CITY	State, NY	Zip Code			State NY	Zip Code
Route	The second secon	THE CHARLES AND A STATE OF THE	A STATE OF THE STA	TO INTERNAL E TIMESPARIE	Vəhici Numb	
No. of Units & Container Type	BA Proper Shipping Name, Hazard C UN or NA Number, Packing Gro	ASIC DESCRIPTION class UN or NA Number, Pro up Hazard Class, I	oper Shipping Name, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE CHARGES (For Camer Use Only)
1 T/T	NON HAZARDOUS NON	REGULATED WATE	er Er	4800	G. 1	E/M
	1(4800	And the state of t	EL I
1	. 11			4800	No. of the last of	60)
1	11			4800	THE THE PARTY OF T	EM
1	i t			4800		EM
1	11			4800	The state of the s	6/1)
1	ιį			4800	A Park Carrier	Ell
	· ·			4800	The state of the s	ERI
1	11			4800		ERS
	- lı				The state of the s	And a property of
	H.				Mac Construction	
					And the state of t	
				A DALLIDO		
		k			VIII. TAKE	172
Note (1) Where the rate is deper	NDERED: YES NO Condent on value, shippers are required to state	I hereby declare that the contents of the				The second second
agreed or declared value of the propert be not exceeding	clared value of the property, as follows: The y is hereby specifically stated by the shipper to parspecify a limitation of the carrier's liability absent he shipper and the shipper does not release	described above by the proper shippin name and are classified, packager marked and labelled/placarded, and are in all respects in proper condition for	COD	Amt: S	C.O.D. PREPA COLLE	ID D
the carrier's liability or declare a value, provided by such provisions. See NMFC (3) Commodities requiring special or ac must be so marked and packaged as to	the carrier's liability shall be limited to the extent Item 172. Iditional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of and Statoments of Charges and Section 1(a) of	transport according to applicabl international and national governmenta regulations. Signature	le Sunject to Section 7 of the consignes without recoursa following statement: The carrier shall not mai freight and all other lawful cha	conditions, if this shipment is to be on the consignor, the consignor is delivery of this shipment withourges. (Signature of Consignor)	shall aign the CHARO ut payment of FR	BES 5 EIGHT CHARGES PREPAID Chesis tox / she su-
the property describerts of packages (the word carrier possession of the nation, if on its ro	ject to the classifications and tariffs in effect on the dis- nibed above in apparent good order, except as notes unknown), marked, consigned, and destined as in- being understood throughout this contract as mean property under the contract) agrees to carry to its us- tle, otherwise to deliver to another carrier on the ro- sach carrier of all or any of, said property over all or	d (contents and condition of con- dicated above which said carrier ing any person or corporation in ual place of delivery at said desti- ate to said destination. It is mutu-	tination and as to eac performed hereunder sification on the date of Shipper hereby	th party at any time interested in all shall be subject to all the bill of fad f shipment. y certifies that he is familiar with ion and the said terms and conciti	or any said property, that ing terms and concilions in' all the lading terms and	every service to be the governing des- conditions in the
SHIPPER U.S. FI	PA REGION II	,	CARRIER			
PER on behol	Vol Elit	The state of the s	PER			
1	1 4 20		DATE	•		

age _1	of _1		CLEAR !	3 New V	(SCAC)	Carrier No Date _	2/2	7/13
O: onsignee	S, EPA	ABGION II THE	ATMONT PLANT	Shipper U.S. Street STUJA	SPA REGION III BT AVE & OLING	CON RD		2)
y GARDEN	GITY	Slate, N.V.	Zip Code		Contact Tel. No.		zig your	
oute	A STATE OF THE STA					Vehic Numb		
No. of Units & Container Type	HM	Proper Shipping Name, I UN or NA Number, Pag	BASIC DESCRIPTION Hazard Class UN or NA Num Hazard Group Or Hazard	nber, Proper Shipping Name, Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
i or for					4600	Concessory		Occ Orny
1 T/T		<u> </u>	TAIDURS NON EUG))	DI) WATER	4800			
1			!/	41:	4800	.	1.	
		11	u i	11	4800	* ***		
	Tatalana di Antonia di	11'	1)	1)	4800			
	And the state of t	11	· · · · · · · · · · · · · · · · · · ·	11			-	
		À	ι,		4800			
1			· · · · · · · · · · · · · · · · · · ·	11	4800		-	**
1	-	1)	<u> </u>	- II	4800		1	
/	-			ц	 			
1:	-				4800		-	
<i></i>					4000		+	
PLAC	ARDS TEN	DERED: YES -	10 🖂	REMIT		· · · · · · · · · · · · · · · · · · ·		
pecifically in writing the greed or declared value e not exceeding	o agroed or decla of the property is possible provisions spe-	nt on value, shippers are required red value of the property, as folic hereby specifically stated by the er acity a limitation of the carrier's liabil shipper and the shipper does no	thipper to described above by the programme and ere classified, marked and labelled/placard	accurately per stripping packaged, led, and are condition, for	Amt: \$	COLL	FEE: AID [] ECT [] \$	
e carrier's liability or de ovided by such provision Commodities requiring ust be so marked and it	eclars a value, the ons. See NMFC Item og special or additi packaged as to en i. Freight Bills and	camer's liability shall be limited to to n 172, onal care or attention in handling o sure safe transportation, See Secti Statements of Charges and Section	transport according to international and national gor regulations. on 2(e) of on 1(a) of	applicable Subject to Section 7 of th	e conditions, if this shipment is to be do so in the consignor, the consignor of ake delivery of this shipment without harges. (Signature of Consignor)	it payment of FREIGHT	GES \$ REIGHT CHAF	RGES sck box if charges are to be collect
th te (tf po	RECEIVED, subject e property describe ints of packages un he word carrier beir pssession of the pro- lation, if on its route,	to the classifications and tarills in effect dispose in apparent good order, excitionwn), marked, consigned, and degunderstood throughout this controperty under the contract) agrees to cootherwise to deliver to another cark	at on the date of the issue of this Bill of Ladir epit as noted (contents and condition of co- stined as Indicated above which said carri- ct as meaning any person or corporation my to its usual place of delivery at said des or on the route to said destination. It is mult y over all or any portion of said route to de	ng, thation and as to e performed hereunde silication on the date in Shipper here governing classific to accepted for himse	ech party at any time interested in all r shall be subject to all the bill of ladir of shipment, by cortifies that he is familiar with atton and the said terms and condition	or any said property, that ng terms and conditions in all the lading terms an	every service to the governing of d conditions in	be :-
HIPPER	1. 27A	PERMET		CARRIER	Clear Br	voil		
ER 1		70:	1	PER		Control of the contro		- 3
	1,11	- Colve	2/22	DATE DATE	1/27/12			

Shipper No. Carrier No.

A property of			Odifici 140		
Page1 of1(Nan	ne of carrier)	(SCAC)	Date		
On Collect on Delivery shipments, the letters COD" must appear before consignee's name or as otherwise provided in Item 430, Set TO: Consignee U.S. EPA REGION II/TREATMENT PLANT	Shipper U.S. E	PA REGION II,		FIELD S	SITE
Street CLINTO RD	City GARDEN	CITY	State NY Z	Zip Code	
City GARDEN CITY State, NY Zip Code		ontact Tel. No			
Route			Vehicle Numbe		
No. of Units & Container Type HM Proper Shipping Name, Hazard Class UN or NA Number, Packing Group UN or NA Number, Packing Group	er, Proper Shipping Name, lass, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)		CHARGES (For Carrier Use Only)
1 T/T NON HAZARDOUS NON REGULATED V	MATER	4800			
1 11	11	11			
//	11	1/			
1 11	11	1/			
1/	11	1/			
/ 11	11	11			
1/	- 11	//			
1 1/	//	11			
11	1/	11			
			-		
		-			
				\vdash	
			-		
PLACARDS TENDERED: YES NO	REMIT C.O.D. TO:				
Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per per per (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent.	ccurately shipping ackaged, COD	Amt: \$	C.O.D. F PREPAI	D 🗆	
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of	dition for Subject to Section 7 of the consignee without recourse following statement:	conditions, if this shipment is to be on the consignor, the consignor ke delivery of this shipment without	out payment of FRE	ES \$	ES
item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of		(Signature of Consignor)	FREIGHT P except wher right is chec	n box at	ox if charges are to be collect
RECEVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contend and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is multi-utility agreed as to each carrier of all or any of, as all property over all or any port of said router to destination.	performed hereunder sification on the date o Shipper hereb	y certifies that he is familiar with tion and the said terms and condit	ding terms and conditions in the h all the lading terms and	he governing clas- conditions in the	
SHIPPER US EVA REGION II	CARRIER	Clear B,	rook		
SHIPPER US ELA REGION II PER UN BRHALF OF US ELA REGION II MIKE EFRONT MIKE EFRONT MIKE EFRONT 13/5/13	PER				_ 1
Mullim 3/5/13	DATE	9 A 36			
D	OTH # F OFFI	acce tipe Micres @			

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

à	Shipp	er No.		
	Carr	ier No.		
(SCAC)	-	Date		
REGION :	II/ROOS	EVEL	r field s	ITE
Æ & CL	INTON R	D		
TY	State	NY	Zip Code	

1 Page (Name of carrier) On Collect on Delivery shipments, the letters"COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1. Shipper U.S. EPA Consignee U.S. EPA REGION II TREATMENT PLANT STEWART A Street CLINTON RD Street City GARDEN CI GARDEN CITY State, NY City Zip Code 24 hr. Emergency Contac

Route					Vehic Numb	le er	
No. of Units & Container Type	НМ	Proper Shipping Na UN or NA Number	BASIC DESCRIPTION me, Hazard Class UN or NA Number, Proper Shipping Name, Packing Group or Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 T/T		NON HAZAR	DOUS NON REGULATED WATER	4800			
/		1/	//	11			
_/		//	1/	11			
/		11	11	11			
,		16	//	11			
/		11	. //	11			
_/		1/	11	11			
1		1/	11	11			
_/		1/	1/	1/			
,		4	"/	11			
1		N	A	1111			
1		1/	11	110			
1		1/	1/	4800			
7					*		

PLACARDS TENDERED: YES - NO -	
(1) Where the rate is dependent on value, shippers are required to state in writing the agreed or declared value of the property, as follows: "The declared value of the property is before the value of the property."	consignment are fully and accurate

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding — per comparison of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability bend to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

Permanent post-office address of shipper.

described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental resolutions. regulations.

PRINTED ON RECYCLED PAPER PRINTED WITH USING SOVBEAN INK

Signature

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

C.O.D. FEE: PREPAID | COLLECT | TOTAL CHARGES

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consigner without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

\$ FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, The property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if is not its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to des-

tination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER US EAR REGION II		
PER ON BEHALF OF US EA REGION	正	
- Milmally 3,	16/13	

CARRIER	Clear	Brook
PER		

DATE

Sp# 9394(OR)

Liotta & Sons, Inc. Roll-off Division

3966 Long Beach Road, Island Park, NY 11558 • 516-432-7085 • Fax: 516-432-6710 New York City R I C Permit #1482

www.nottaanusons.com	new fork	city B.i.C. Permit # 1462
lame:	Date:	(-) 1 top
ob location:	PRAYMONI)-	$G = A_{\sigma_{\lambda}}$
city: (SURDEN)	Pu State: Off	STERY ZIP: TKU)
Contact name: THE COT	Driver:	
Phone #:	Cell phone #:	(13)761-5257
Order date:	Order taken by:	NAMEL
Delivery date: /// 3/ //	Delivery time:	MORNING)
Container Size	Container #	Amount
5 Yard		
10 Yard		
15 Yard		
20 Yard	JUL D	M
30 Yard	1. No. 1	10/10/
		11/2
Comments:	Su	b-total:
(10/V/Kt/t	2011	Тах:
Tamer	Add'l.	:harges:
DAMA		Total:
Method of payment O Credit O COD Name on card:	: Cash or check (circle one)	Credit Card
Card number:		Exp. date:
I have thoroughly read, understand of this form.	and agree to all the information/resp	ponsibilities on the front and back
Customer's Signature:	Cont	ainer pick up date:

WHITE — Office Copy GREEN — Billing CANARY — Customer Copy PINK — Pick up

Comments: Operator: Vehicle Account Material Order Signature ID: H H ID: 4 LIO04 5164327085 ASPHALT LIOTTA1 Charge by Unit DUMP BROKEN ASHALT ROLLOFF CUSTOM LIOTTA Out In: YDS • • Net Date 11/21/2014 11/21/2014 Tax: Total: Net: Gross Tare: NET Price At TONS: .. \$ \$ \$ \$ \$ \$ \$ S 74840 37560 37280 Time 10:31 10:38 N 0.000 N H 45.00 œ 000 OD H 0.00

9

4

tn

Each

GOLD—Inventory

tn

41

 \mathbb{Z}

AMOWHERD

Liotta Bros. Corner Of: Da Oceanside, NY 516-855-0232

Daly Blvd & NY 11572

Corp.

Hampton Road

Transaction 6849

No.

Scale

Liotta Bros. Recycling Corp.

Corner Of: Daly Blvd & Hampton Road

LI004

ASPHALT

LIOTTA1

ROLLOFF

5164327085 LIOTTA & SONS INC.

DUMP BROKEN ASHALT

CUSTOM LIOTTA

Oceanside, NY 11572

516-855-0232

Vehicle ID:

Account ID:

Order ID:

Material ID:

Transaction No. 6886

Date Time Scale

11/25/2014 01:24 1 1

Out: 11/25/2014 01:35

Gross:

77080 lb (M)

36240 lb Tare: Net: 40840 lb

NET TONS: 20.42 tn

Comments:

Operator: 4 Charge by Unit Price: \$

YDS

0

At \$

O Credit Card

O COD: Cash or check (circle one)

Name on card: Card number:

Exp. date:

0.000 /tn 22.000 Each

\$ Net: \$ Tax:

45.00 0.00

Total:

45.00

Signature:

3966 Long Beach Road, Island Park, NY 11558 • 516-432-7085 • Fax: 516-432-6710 New York City B.I.C. Permit #1482 Liotta & Sons, Inc. Roll-off Division Amount Tax: Total: Sub-total: Add'l. charges: Order taken by: Delivery time: Cell phone #: イカラ ショコイ Container # Driver: Date: www.liottaandsons.com Container Size Method of payment 5 Yard 10 Yard 15 Yard 20 Yard 30 Yard Contact name: Delivery date: Job location: Comments: Order date: Phone #:

Container pick up date: Customer's Signature:

have thoroughly read, understand and agree to all the information/responsibilities on the front and back

CANARY — Customer Copy PINK — Pick up GOLD — Inventory

WHITE — Office Copy GREEN — Billing

Liotta Bros. Recycling Corp.

Corner Of: Daly Blvd & Hampton Road

Oceanside, NY 11572

516-855-0232

Transaction No. 6973

1

Date Time Scale In: 12/09/2014 09:12 1

Out: 12/09/2014 09:18

Gross: 48840 lb (M)

Tare: 34780 lb Net: 14060 lb

NET TONS: 7.03 tn

Price: \$ 0.000 /tn

YDS At \$ 22.000 Each Net: 45.00

\$ Tax: 0.00 Total: \$ 45.00

Vehicle ID: LI004 ROLLOFF Account ID:

5164327085 LIOTTA & SONS INC. CONC DUMP BROKEN CONCRETE

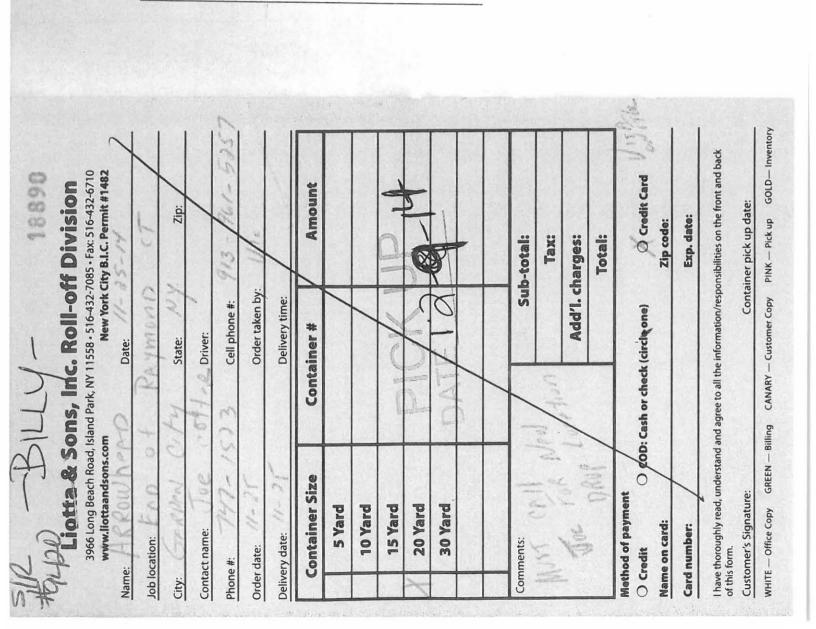
Material ID:

Order ID: LIOTTA1 CUSTOM LIOTTA

Comments: Operator: 4

Charge by Unit

Sighature:



& ERC NON-HAZARDOUS WASTE MANIFEST

D20796

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.		***************************************	Manifest Document No.		2. Page 1 of
3. Generator's Name and Mailing Address INSEPA REGION J JST CINTER RUY 11530 (Fortill City, NY 11530 4. Generator's Phono (JB) 637-48	73		****			
5, Transporter 1 Company Name	- 6. 	US EPA ID Number	-01	A. State Trans		40801
McVAC Environmental S	cruces C	TR 00000,505	8	8. Transporter	1 Phone 803-49	8-1497
7, Transporter 2 Company Name	.8. 1	US EPA ID Number		C. State Trans		
Q Decignated English Name and Site Address	10.	US EPA ID Number		D. Transporter E. Slate Facilit		
9. Dosignated Facility Name and Sile Address ENVIRON MENTEL 1076 Old Munhar Rkz Lancaster At 17601	when p	10987 266 748	,	F. Facility's Ph		
	. 1 11	. , IVon-KCK	41 0	ontainers	13.	14.
Old Roosevelt Field direct	range allelling trun	d bask Non-DOT	No.	Туре	Total Quantity	Unit Wt./Vol.
Old Roosevelt Field direct	Pulling Min A		001	TT	\$075.	38/
b.						
c.						t .
d						
G, Additional Doscriptions for Materials Listed Above				H. Handling C	odes <i>fo</i> r Wastes Listed Ab	ove
15. Special Handling Instructions and Additional Info	mation	•				
16. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials of						Date
Printed / Typed Namo Muzuffar Rahmani	4	Signature XI . A	alm	rani	M	onth Day Year 7 9 15
17. Transporter 1 Acknowledgement of Receipt of M Printed / Typed Name ### COOP I CO Volume	0	Signatura			M	Date lonth Day Year
18. Transporter 2 Acknowledgement of Receipt of M		1				Date
Printed / Typed Name		Signature	· · · · · · · · · · · · · · · · · · ·		М	lonth Day Year
19. Discrepancy Indication Space 5. 38	Tons		2014			
20. Facility Owner or Operator, Certification of recel	of the waste materials covered	by this manifest, except as noted in	Item 19.		_	
Printed / Typed Nove / A	O //					Date Vage
Printed / Typed Name	South	Signature			M	onth Day Year

A	W
	,
ERC	•

WEIGHED ON A FAIRBANKS SCALE

Environmental Recovery Corp. 1076 Old Manheim Pike Lancaster, PA 17601 (717) 393-2627

Transporter: MC MC Generator: USE MT Generator Address:	
Product Description:	
IMBOUND 58600 15 LOOP ID 986	
Inbound Date: 7-14-15 Time: 2:30	5PM
Outbound Date: 7-14-15 Time: 4:2	SPH
TOTAL SEASE	
Driver On:L00P_ID_986_ Off:	
5,38 TOM	5
SIGNATURES	
Transporter:	
Weighmaster License #: 17350	
No. 1588 ORIGINAL COPY	